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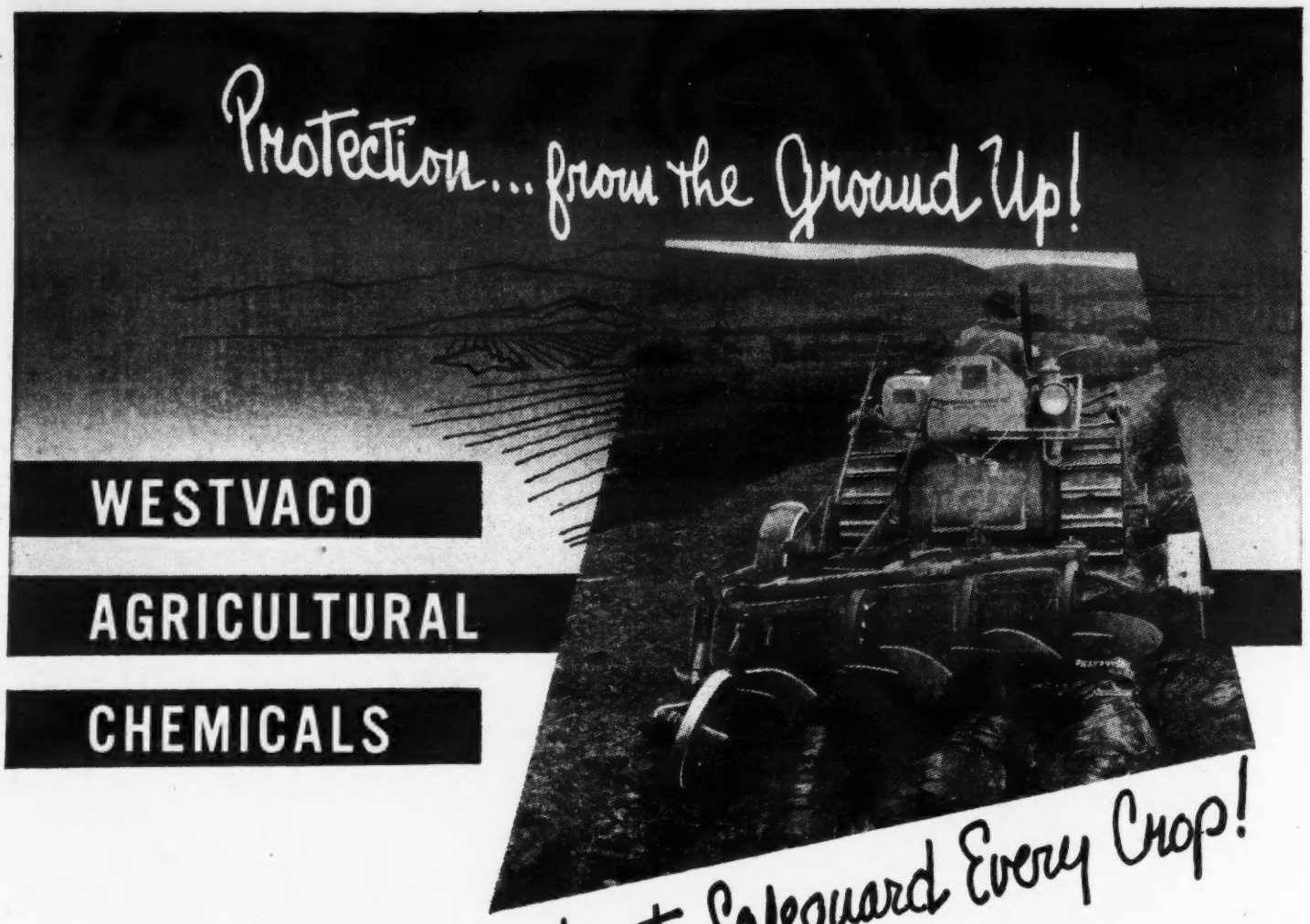

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Oil, Paint and Drug Reporter

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ICC to Hear Opponents Of Freight Rate Boost

Opponents of the request of the nation's railroads for an immediate 10 percent increase in freight rates will be heard at a meeting with the Interstate Commerce Commission at a future date as yet not set. The request of the roads was turned down last week by the ICC, pending decision of an earlier petition for a 27 percent increase in rates over the present levels.

The request for an increase of 27 percent in existing rates had been made to the commission by the Class I carriers the previous weekend in an amendment to their request of July 3 for a 17 percent increase. The additional 10 percent was sought to meet the added wage costs involved in the 15 percent wage increase granted to the non-operating employes.

The 27 percent overall-increase would vary between the different transportation territories. In the East and between the Eastern, Southern and Western, the increase would amount to 38 percent. In the South and the West it would amount to 28 percent. Certain commodities are proposed to be increased by specific amounts so that for the country as a whole the increase would amount to 27 percent.

Among the specific increases proposed are the following:—

Oil, fish, sea, animal, not edible or medicinal, 18 cents per 100 pounds.

Vegetable and nut oils, 18 cents per 100 pounds.

Salt, 3 cents per 100 pounds.

Wood pulp, 18 cents per 100 pounds.

Increased charges also were proposed for such services as collection and delivery, switching, loading and unloading, diversion and reconsignments, and charges for stopping in transit to complete loading or unloading.

Quinine Use Restrictions Broadened by RFC

Recent expansion of the permitted uses of quinine originating in stocks owned by the Reconstruction Finance Corporation were formalized by amendment of Conservation Order M-131 issued last week by the Office of Materials Distribution.

Controls on the redistribution of such quinine after purchased from RFC are generally removed. While purchase of quinine from RFC still may be made only after OMD authorization, additional authorization no longer is required for subsequent delivery, acceptance or use by any person.

In general authorization to obtain quinine from RFC will be granted to provide adequate supplies for anti-malarial, proprietary, industrial and other uses. However, it has been determined that not more than 905,000 ounces are to be released during the period August 1, 1947, through February 29, 1948, and that 1,200,000 ounces—equivalent to one year's requirements for anti-malarial purposes—will be withheld from allocations release. No authorizations will be granted for quantities which would increase an applicant's total supply of quinine, regardless of source, to an amount judged unreasonable in relation to his anticipated requirements.

Restrictions conserving government-owned quinidine for treatment of cardiac disorders are spelled out in greater detail in the revised order, but no important changes are involved, OMD said. Amount of quinidine to be released for domestic consumption will be determined monthly, on the basis of supplies available from both government and private sources.

Congress Probes Petroleum Prices Paid by Government

An investigation into alleged unauthorized increases in prices paid by the Treasury Department for the procurement of petroleum products under contracts let just prior to decontrol of oils prices, on July 31, 1946, was opened last week by a subcommittee of the house committee on expenditures.

The contracts, numbering about 150, were awarded by the procurement division between April and July 1, 1946, under competitive bid procedures. Following decontrol of prices on petroleum products, the Treasury Department agreed to amend the contracts to pay higher prices in view of the rise taking place in oil prices. The action by the department was strongly opposed by the Controller General on the grounds that it was illegal.

USDA to Issue Rules Under Insecticide Law

OPD Washington Bureau

Rules and regulations covering the registration, marketing and labeling of products under the new insecticide law are expected to be issued some time during the week of September 22, officials of the insecticide division of the Department of Agriculture said last week. Hearings were held on a tentative draft of the rules August 25, at which many suggestions for changes were made by members of the industry. Additional suggestions and comments were received by the department prior to the September 8 deadline. While some revisions in the rules are expected to be made, officials were not ready to outline them at this time.

Submerged Oil Land Bids Being Rejected by U. S.

OPD Washington Bureau

More than 700 applications for Federal government lease of oil and gas lands off the California coast and in the Gulf of Mexico adjacent to Louisiana have been rejected by the bureau of land management of the Department of the Interior because provisions of the Mineral Leasing Act of 1920, under which the leases were sought, have been declared inapplicable to such lands.

No further steps can be taken for Federal lease of these resources unless Congress enacts new laws governing both policies and administrative procedures to be followed in the submerged areas, Secretary of the Interior J. A. Krug explained. Meantime, instructions have been issued to field offices of the bureau to reject any such applications which may be filed in the future.

Nitrogenous Materials Put on Positive List

OPD Washington Bureau

The Office of International Trade on September 12 added to the positive list of commodities requiring a validated license for export nitrogenous fertilizer materials, except ammonium nitrate, calcium cyanamide, calcium nitrate and urea, which already were on the list.

Ammonium Nitrate Hazard Study Planned By New 5-Man Committee

OPD Washington Bureau

Maj. Gen. Philip B. Fleming, administrator of the Federal Works Agency, will appoint a five-man committee to conduct an exhaustive study into the hazards in the storage and handling of ammonium nitrate aboard ships. The appointment of the committee was authorized at a conference of representatives of the chemical industry, insurance underwriters and officials of Federal, state and local agencies held in Washington last week by the President's Committee on Fire Prevention.

The sum and substance of the gathering was that, despite the fact that the explosive character of this form of fertilizer has been known for a quarter of a century, there was still much to learn of the cause and conditions under which the material explodes. However, it appears to be the general consensus that with proper handling, proper storage so as to be free from contamination with organic substances, and with due regard to fire regulations, the material can be shipped safely.

In a formal regulation adopted unanimously, the committee to be appointed was authorized to give immediate consideration to the question of ammonium nitrate shipments from ports other than isolated ports; to the question of shipments from one port to another; the problem of containers for the fertilizer, and to support continuous and enlarged research into the subject of the causes of combustion and its control. General Fleming is to name the group at an early date. All the latest information available on the safe handling of ammonium nitrate in transport is to be printed by the committee and distributed generally.

Work With Other Groups

The committee will coordinate its activities with those of the inter-agency committee studying the ammonium nitrate problem, recently organized by Secretary of the Treasury Snyder and headed by Admiral Joseph F. Farley, Commandant of the Coast Guard, which is also undertaking independent research on the problem.

The session was opened by General Fleming calling attention to the need for studies to reduce the danger of combustion of ammonium nitrate aboard ship, without imposing controls that would hamper the rapid shipment of this plant food to the stricken areas of the world desperately in need of fertilizer.

The importance of ammonium nitrate as fertilizer was stressed before the gathering by Clifton A. Woodrum, president of the American Plant Food Council, who urged that a program of education rather than unnecessary restrictive regulations be adopted for the safe handling of the material. Details of the manufacture, loading and transport were discussed by Major General Everett S. Hughes, Chief of Ordnance, War Department; Colonel Harold T. Miller, Transportation Corps, War Department; R. O. E. Davis, Department of Agriculture; W. W. Yeandle, Spencer Chemical Company, and A. R. Reed, vice-president, Lion Oil Company.

The scope of scientific knowledge at the present time on the subject of ammonium nitrate and the status of research in this field were discussed by A. C. Fieldner, Bureau of Mines; Dr. W. G. McKenna, chief chemist, Bureau of Explosives, American Association of Railroads; Alvah Small, presi-

—*Continued on page 74*

Mint Oil Production Estimate Reduced by USDA

Present prospects for mint oil production in 1947 are about 4 percent below the August 1 indications, it was announced last week by the Bureau of Agricultural Economics. The bureau estimated the combined production of peppermint and spearmint oils at 2,034,000 pounds, about 26 percent above the 1946 production of 1,620,000 pounds, and 63 percent above the 1936-45 average of 1,245,000 pounds.

Peppermint oil production, on the basis of September 1 indicated yields, is expected to total 1,624,000 pounds, from the following states:—Indiana, 615,000; Michigan, 256,000; Oregon, 525,000; and Washington, 238,000. No figures were supplied for California and Ohio this year because there is only one grower in these states. Last year production in Indiana amounted to 450,000 pounds; Michigan, 266,000; California, 16,000; Oregon, 396,000; and Washington, 206,000 pounds.

Production of spearmint oil is estimated at 410,000 pounds. Production is reported from each state as follows:—Indiana, 280,000 pounds, against 204,000 pounds last year, and Michigan, 130,000 pounds, against 82,000 pounds last year. No figures were supplied from California.

WAA Sells High-Octane Gasoline Refinery

OPD Washington Bureau

Sale of the American Liberty Oil Company refinery, Texas City, Tex., to the Petrol Terminal Corporation, Philadelphia, for $3,250,000 has been approved by War Assets Administration. The purchasing company has agreed to give the Army and Navy first call on the entire output of the plant this year, and an option on the same amount of its production next year. In addition, the company will process any petroleum products desired by the armed services.

Price Trend Speeds Upward

Pressure of higher costs and scarcer materials broke through the price restraints in the markets for chemicals, oils, and drugs at several places last week. Advances in quotations were made in almost every division. Some of these did not become effective until September 15, but enough were immediate to raise the general price average 1.5 points for the week ended September 12, putting it back to the late-July level. Some of the influences were basic, but in certain chemical lines, especially the chlorates, a new boosting factor was to be noted—the higher cost of platinum used in catalytic roles.

The coal situation is beginning to make itself more emphatically felt. Coaltar intermediates, particularly in the naphthyl and benzoic groups, were moved upward in important quarters. In some part, the same influence was responsible for a boost in ammonium sulphate. Several causes underlay the advances in chlorides of phosphorus and of sulphur. Chlorine was the biggest in the boosting of chlorinated solvents, but other forces were behind advances in other alkyl compounds scheduled for this week. Benzine hexachloride was cut again. Chrome compounds reflected the tightness of raw materials. Crystal borax was advanced.

Oils and fats showed a deal of price strength, even though No. 3 castor oil was reduced in the face of another boost for the beans. Copra and coconut oil were advanced. So were the four leading domestic edible vegetable oils, also lard and tallow and some lesser animal fats. Tung oil was cheaper. Linseed oil was unchanged. Essential oils showed the only lower price level in the markets. Quotations on eleven of them were lowered; one was advanced. Better demand was reported. Aromatic chemicals also were weaker. Spices and such aromatics were stronger under the lead of black pepper. Botanical drugs also showed upgoing emphasis in price views.

The egg situation did not further affect the markets, but corn derivatives reflected the higher price of grain. Milk powders went along in the popular elevating of food prices. The feed situation put more additions on prices of meat-packing by-products. Shellac was advanced; benzoin and gamboge were reduced.

Production (operation) costs, largely labor, are given as the reason for boosts all along the line in quotations on natural (earth) and synthetic iron oxide colors. Higher prices on coaltar colors have been named in some quarters for next month; others are expected.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Sept. 12, 1947	Sept. 5, 1947	Sept. 13, 1946
141.6	140.1	137.0

The base of the OPD Price Index is the average of prices in 1926 and 1930, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
May	145.9	135.1	132.5	118.2
June	143.9	135.4	132.5	121.9
July	142.5	137.7	133.5	125.5
August	140.4	136.6	133.9	128.2
Year's average	*147.8	138.8	133.3	123.2

* Eight months.

U.S. Asked to Revise Petroleum Bids Methods

OPD Washington Bureau

The National Tank Truck Carriers, Inc., has requested the Treasury Department's bureau of supply to revise the conditions it imposes on bids for petroleum products needed by the government, contending the present method prevents for-hire motor carriers from sharing in the transportation of a substantial portion of this traffic.

C. Austin Sutherland, secretary-manager of the group, pointed out in a letter to W. E. Gannon, purchasing officer for the bureau, that the government will not consider bids naming a price f.o.b. at the bulk plant of an oil firm on 150,000 gallons or less, if it receives any bids naming a price f.o.b. at destination. Under this procedure, he continued, any oil company interested in bidding f.o.b. at its bulk plant because it lacks adequate transportation facilities of its own is precluded from sharing in the government's business if any bid is received giving a price f.o.b. at destination.

Atomic Energy Health Aspects Study Planned

OPD Washington Bureau

The United States Atomic Energy Commission has appointed an advisory committee for biology and medicine composed of seven of the nation's leading medical and biological scientists. The advisory committee, which met for the first time in Washington last Friday, will nominate a director to head the proposed Atomic Energy Commission division of biology and medicine, and will begin a continuing study of the basic policies which the commission should follow relative to the medical, biological and health physics aspects of the atomic energy program.

The appointment of an advisory committee for biology and medicine was urged by the AEC medical board of review in its report to the commission on June 20. At the request of the commission the board of review prepared a list of qualified medical and biological scientists from which the commission named the following as members of the advisory committee for biology and medicine:—

Dr. Alan Gregg, director for medical sciences, Rockefeller Foundation; Dr. G. W. Beadle, professor and chairman of the division of biology, California Institute of Technology; Dr. Detlev W. Bronk, director of the Johnson Research Foundation, University of Pennsylvania, and chairman of the National Research Council; Dr. Ernest W. Goodpasture, dean of the school of medicine and professor of pathology, Vanderbilt University; Dr. A. Baird Hastings, professor of biochemistry, Harvard medical school; Dr. E. C. Stakman, chief of the division of plant pathology and botany, University of Minnesota, and Dr. Joseph T. Wearn, dean of the school of medicine, and professor of medicine, Western Reserve University.

Members of the advisory committee consulted with the Commission and general manager at the first meeting. While the determination of general policies regarding the commission's medical and biological research program was given priority, the advisory committee began a study of possible courses of action for the use of $5,000,000 for cancer research, authorized by Congress in the Atomic Energy Commission appropriation for the fiscal year of 1948.

The advisory board will handle plans for carrying out the long range recommendations made to the commission by the medical board of review. These include the recommendations that:—

1. The Atomic Energy Commission continue and extend research and training in all aspects of the application of atomic energy to medical and biological problems.

2. The commission vigorously pursue research on possible hazards to the health of humans, animals and plants incident to the research development and production of materials concerned with atomic energy, including the protection of the civilian population in case of war.

3. The commission continue to provide isotopes (for tracer research) for the study of fundamental medical and biological problems, and provide a consulting service to investigators in this field. (In its report to the Atomic Energy Commission, the medical board of review suggested "that steps be taken to make isotopes available to foreign investigators." A limited foreign sale of certain radioisotopes has been authorized.)

4. The commission encourage, consistent with requirements of national security, the publication of scientific papers dealing with medical and biological research and development.

5. The commission strengthen cooperative relationship with other agencies of government, and in particular with the United States Public Health Service and the Armed Forces, in fundamental biological and medical research and in training personnel in these fields.

6. The commission provide fellowships for study in the field of radiation effects, and assist in the training of qualified personnel.

DCAT Will Discuss Economic Problems

In addition to its annual business meeting, the Drug, Chemical and Allied Trades Section of the New York Board of Trade will inject one afternoon of trade discussion into its gathering at Shawnee-on-Delaware, Pa., September 24 and 26. This will consist of a round-table forum on trade conditions.

Dr. Carle M. Bigelow, of the Calco Chemical Division, American Cyanamid Company, chairman of the session, will present a summary of current economic and industrial problems. Hugh Craig, editor of OIL, PAINT AND DRUG REPORTER, will lead the discussion on "Economic Trends in Our Industry." Lloyd Volckening, of the Ivers-Lee Company, will lead that on "The Export Situation." Open discussion from the floor is planned.

The speaker at the annual dinner of the section will be Dr. Ivor Griffith, dean of the Philadelphia College of Pharmacy and Science.

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Surplus Materials and Equipment Offered

Chemicals and related materials currently offered as surplus on closed bids to the dates given, or at fixed prices as stated, by the War Assets Administration include the following items:—

Calcium chloride boiler compound, 750 pounds, 20 cents per pound; Trenton, N. J., PHL-OL-809.

Cuprocide, yellow, 1,400 pounds; Alameda, Cal., SFO-OL-349, September 24.

Indanthrene orange 3GA paste, 298 pounds, 60 cents per pound; Philadelphia, PHL-OL-376.

Lacquer, five lots, 941 gallons, 50 cents per

—*Continued on page 76*

Sharp & Dohme Advances Three Major Executives

Sharp & Dohme, Inc., pharmaceutical manufacturer, Philadelphia, has elected John S. Zinsser chairman of the board, William L. Dempsey president, and Dr. William A. Feirer executive vice-president. Mr. Zinsser, who was formerly president, will continue to be chief executive officer of the company.

Mr. Dempsey, formerly executive vice-president, has been with the organization since 1936. He left Merck & Co. in that year to become assistant to the president of Sharp & Dohme, and in 1938 was elected executive vice-president.

Dr. Feirer joined the Sharp & Dohme research staff in 1930, and in 1936 was appointed director of its biological laboratories. In 1937 he was named medical director and in 1940 was advanced to a position of director of medical research.

Who Has It

If you know where any of the materials listed below can be procured, please send the information to the OPD office.

Allyl aldehyde.
Di-n-amyl carbonate.
Ethyl urethane.
Isobutyl undecylenamide.
Methyl mercaptan.
Sodium salt of methyldiiodoquelidamic acid (sic).
Sulphamethyl pyrimidine.
Thiobarbital.
Thiofentone (sic).

Barrett to Boost Domestic Nitrate of Soda Oct. 1

The Barrett Division of the Allied Chemical & Dye Corporation, New York, will increase the price of its domestic nitrate of soda $5 per net ton, effective October 1. The company states the advance is made necessary by increases in cost of coke, coal, labor and freight rates. New prices will be $5.50 per net ton bulk and $5 per net ton bags under those for competitive imported material.

Diamond Alkali Ups Prices

Diamond Alkali Co. of Pittsburgh, Pa., announces an advance in price for soda ash of 10c. per 100 pounds on October 1. Also on that date advances of $5 per ton on chlorine in tanks and ½c. per pound in cylinders will become effective. Other new prices are:—Caustic soda, rayon type, 50 percent liquid $2.25 per 100 pounds; electrolytic liquid $2.15 per 100 pounds. Electrolytic solid $2.85 per 100 pounds and flakes $3.25 per 100 pounds, rayon grade 10c. per 100 pounds higher.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Alum stone, Fortaleza, Brazil (AI-2).
Borax, Fortaleza, Brazil (AI-2).
Casein, Lemgo/Lippe, Germany (AI-12).
Caustic soda, Fortaleza, Brazil (AI-2); Sao Paula, Brazil (AI-4); Salvador, Brazil (AI-6).
Chemicals, Rio de Janeiro, Brazil (AI-5); (AI-8); London, England (AI-17).
Chemical specialties manufacturing, Johannesburg, Union of South Africa (AI-15).
Coconut oil, Mannheim, Germany (AI-11).
Cosmetics, Rio de Janeiro, Brazil (AI-5).
Drugs, San Jose, Costa Rica (AI-14).
Dyes, Fortaleza, Brazil (AI-2); London, England (AI-17)
Glue, bone, Lemgo/Lippe, Germany (AI-12); casein, Florianopolis, Brazil (AI-9).
Industrial chemicals, Porto Alegre, Brazil (AI-1).
Lacquers, Brussels, Belgium (AI-16).
Lard, Mannheim, Germany (AI-11).
Matches, Fortaleza, Brazil (AI-7).
Mineral oil, Mannheim, Germany (AI-11).

—*Continued on page 55*

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Fats, Oils Export Quotas Up Sharply in Oct.-Dec.

OPD Washington Bureau

The Department of Agriculture has announced fats and oils export allocations totaling 452,500,000 pounds for the fourth quarter of 1947. This amount includes 36,300,000 pounds allocated to export claimants in exchange for other fats and oils needed in the United States. For the fourth quarter of 1946, final export allocations totaled 176,800,000 pounds.

The October-December, 1947, commercial allocations include (in fat content) 74,600,000 pounds of lard, 5,200,000 pounds of margarin, 100,200,000 pounds of shortening and other edible oils, 15,500,000 pounds of drying oils, 33,100,000 pounds of other inedible fats and oils, 17,100,000 pounds of soap, and 86,000,000 pounds of peanut oil as peanuts (100,000 short tons of shelled peanuts).

In addition to the 331,700,000 pounds of commercial export allocations, 120,800,000 pounds of all types of fats and oils are allocated for procurement by the Production and Marketing Administration for the U.S.-U.K. Occupied Zones in Germany and for countries receiving aid under the United States foreign relief program to be administered by the Department of State. Exports under these programs will be in addition to the amounts listed for the various types of fats and oils under commercial export allocation, but are included in the gross total of 452,500,000 pounds for the fourth quarter. Recipients of United States commercial export allocations of fats and oils for the fourth quarter of 1947 are expected to be announced this week.

Market Reports

Borax in crystallin and coarse granular forms has been advanced $20 per ton. Prices on crystals are now $73.50 per ton for carlots, paper bags; ton lots, $91; less ton lots, $96; barrels, carlots, $93.50; ton lots, $111; less ton lots, $116. No change in prices for fine granular or powdered material was made.

Copra was up $5 at the close, sales were reported at $170 per short ton, c.i.f. Pacific coast for October-November shipment, a net gain of $10 for the week. Offers were scarce, especially for prompt shipment from the Philippines.

Cottonseed bleachable oil futures reacted lower on Friday in sympathy with the decline in lard and grains. Oils prices declined 140 to 200 points below the previous close for December, January, March and May—the active months.

Cottonseed oil crude was firmer with trading at 22c. per pound, tankcars mills in the Valley and 21c. Texas for prompt and nearby shipment. Oil disappearance in August was indicated at 198,865 barrels, compared with 147,000 barrels in July and 221,020 barrels in August, last year. Visible supply of seed and oil was estimated at 454,000 barrels on August 31, against 661,000 barrels a year ago.

Linseed oil shipments from the Argentine totaled 11,339 tons to the United Kingdom last week. None to other destinations.

Mint oils production in Indiana shows above average yields and distilling operations will continue until mid-September, according to the Bureau of Agricultural Economics. In Michigan, fields show considerable variation. Many fields are not yielding as well as expected, and in some sections are very weedy. Distilling is well along in all producing areas of Washington. Yields in most districts have been good, although in some eastern Washington fields they have been rather low.

Tallow market was further advanced late last week. Large consumers increased bids to 16c. for fancy and small users to 17c., a net gain of 3c. for the week. Other tallow grades and greases were increased in proportion. Trading was inactive as producers have withdrawn from the market.

Bids Wanted

Acetone, 10,000 gallons, Army Ordnance Department (Dover, N. J.) invitation 25, September 19.

Calcium Chloride, 83,000 pounds, Army Engineers Corps (Mobile, Ala.) invitation 47, September 16.

Carbazole, 40 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Carbon Dioxide, Solid, 75,000 pounds, Army Chemical Center, Md., invitation W-53, September 19.

Carbon Tetrachloride, 6,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 21, October 6.

Chlorine, 300,000 pounds, Army Engineers Corps (Washington 25, D. C.) invitation 22, September 22.

Compressed gases, as required through June 30, 1948; Quartermaster Purchasing Office (Baltimore 2, Md.) invitation 5, September 18.

Cresol, 14,433 metric tons, Quartermasters Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Diatomaceous earth, 6,000 pounds, Navy Pur-

—*Continued on page 59*

Toiletries Advertising Being Surveyed by FTC

OPD Washington Bureau

A survey of advertising of manufacturers and distributors of shampoo and scalp preparations to determine whether such advertisements are in violation of the Federal Trade Commission act is being made by the radio and periodical division of the FTC.

Investigation was ordered last week following statements of F. W. Fitch Company and F. W. Fitch Manufacturing Company that charges brought against them by the commission of misleading and false statements in their advertisements could be directed at many other members of the industry. Fitch accused the commission of being unfair in the matter by not issuing similar complaints against its competitors.

Fitch asked the commission to withdraw its complaint and deal with the matter on an industry-wide basis, or, as an alternative, issue complaints against the other members of the industry using advertisements similar to Fitch's. The commission rejected the motion and ordered trial of the issue on its merits.

In an opinion accompanying the order Commissioner Edwin Davis defended the commission against the Fitch charges that it was being singled out for complaint. Mr. Davis said that the commission had brought action in the past fifteen years in some 360 cases involving all types of shampoos, hair tonics and scalp preparations.

Mr. Davis added that in view of Fitch's accusation against other members of the industry, supported by photostatic exhibits of their advertisements, the commission ordered the survey and a report of its results. If it appeared, he said, that any of these concerns are disseminating false advertisements, the commission will take such action in the public interest as appears advisable.

N. Y. Chemical Corps Ass'n Elects McGinty President

Jerome F. McGinty, of the Millmaster Chemical Company, has been elected president of the New York chapter of the Chemical Corps Association for the year 1947-48. Other officers elected include S. W. Jacobs, of the Niagara Alkali Company, vice-president; Marvin J. Silberman, Royal Lace Paper Company, treasurer, and Charles Stone, Certified Abstract Corporation, secretary.

The fall meeting of the chapter will be held at the Building Trades Employers' Association, 2 Park avenue, on October 15.

Babcock Gets New Post With Carbide & Carbon

Carbide & Carbon Chemicals, Ltd., Canada, has appointed Norman C. Babcock vice-president and director. Manager of the industrial chemicals division of Carbide & Carbon Chemicals Corporation, New York, a unit of Union Carbide & Carbon Corporation, since 1942, Mr. Babcock has been associated with the parent organization since 1923.

Du Pont Starts Sulphuric Acid Output at Va. Plant

The James River, Va., contact sulphuric acid works of E. I. du Pont de Nemours & Co., Wilmington, Del., has started operations. Operated by the company's Grasselli Chemicals department, it makes sulphuric acid for use by industries in the Richmond area. Andrew Sinnickson, formerly manager of the sulphuric acid works at Wurtland, Ky., is manager.

Foreign Market Lists

List of foreign outlets for chemicals and related materials and consumer goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country:—

Beverage manufacturers, Ecuador, India, Ireland.

Chemical importers and dealers, Guadeloupe.

Paint and varnish importers and dealers, Hungary.

Rosenberger Still with SK&F

In reporting the election of J. Mervin Rosenberger as a director of B. L. Lemke & Co., in *OPD* for September 1, it was inadvertently stated that Mr. Rosenberger was formerly vice-president and secretary of Smith, Kline & French, Inc. Mr. Rosenberger is still associated in those official capacities with Smith, Kline & French, Inc.; his election to the Lemke directorate has made no change in that connection. The erroneous statement to the contrary is deeply regretted.

FAO Group Seeking Farm Output Boost

A working group comprising the United States, the United Kingdom, Brazil, India, France, and Denmark was established by the Food and Agricultural Organization at its Geneva meeting last week to explore steps to be taken before the 1948 harvest to supply farmers with more fertilizers, pesticides, and farm machinery, needed to increase production. The group will determine the requirements of the various countries and suggest methods of meeting them.

Brazil is understood to have laid particular stress upon the fact that the great production capacities of that country were being hampered by lack of fertilizers, pesticides and farm machinery, and urged FAO to form a technical group to study the equipment needs.

NAPIM to Consider Future of Ink Industry

Taking as its theme "Where Do We Go From Here?", the annual meeting of the National Association of Printing Ink Makers, to be held at the Shoreham hotel, Washington, D. C., October 1-3, will probe the future and what it holds for the printing ink industry.

A paper on "Petroleum Dry Oils and Resins" will be presented by Dr. Frank J. Smith, of Pan American Petroleum and Transport Company, New York, and C. J. Meeske, of Reichhold Chemicals, Inc., Detroit, will speak on "Alkyd Resins."

Other speakers on the program include Dr. Andries Voet, J. M. Huber Corporation, Brooklyn, "The Printing Ink Industry in Germany"; E. P. Ryan, chief chemist, Curtis Publishing Company, Philadelphia, "The Publishers Requirements of the Printing Ink Maker," and Nat Rosen, Superior Printing Ink Company, New York, who will present a paper entitled "A Comparative Study of Resin and Mineral Oil Varnishes" prepared by the technical committee of the New York Printing Ink Production Club.

Koppers Coal Products Plant Headed by Winans

Koppers Company, Pittsburgh, has named Dr. Charles F. Winans plant manager of its Pennsylvania Coal Products department plant at Petrolia, Pa. In this capacity he will be in complete charge of the plant and its laboratories, and will direct its research and development operations.

Dr. Winans joined the Koppers organization in 1942 as chief chemist for the butadiene division of the Kobuta styrene and butadiene plant near Monaca, Pa., which was being operated by Koppers for the government. He was later transferred to the chemical division as technical adviser, and in January of this year was named chemical director of the Pennsylvania Coal Products division.

Concannon Reports on Chemical Industry's Recovery in Europe

OPD Washington Bureau

With the exception of Germany and possibly France, the level of activities in the chemical industry throughout most of Europe appears to be well along the road to recovery, Charles C. Concannon, chief of the chemicals and drugs division of the Department of Commerce reported last week upon his return to the United States from the London conference to the Internation Congress of Pure and Applied Chemistry.

Reporting to the interdepartmental committee on chemical statistics on a tour he made of England, France, the low countries, Switzerland and Germany, Mr. Concannon said, except in Belgium, Holland and Switzerland, he found the chief difficulty to be a lack of incentive upon the part of the workers to produce, largely growing out from the unsettled political situation.

One of his aims while in London was to find out the effect upon the chemical industry of the nationalization of the coal industry. He was only partly successful. From the answers he gathered, he concluded that eventually between 50 and 75 percent of the industry would be nationalized, and that this aim of the nationalization program would come some time before the steel industry is taken over by the government. The next industry in line for nationalization, he said, is the gas industry.

Production of chemicals on the whole in England appears to be pretty well up to pre-war levels, except in the case of the alkalies, which took a 30 percent dip recently when the output of coal was reduced, Mr. Concannon reported. Coal is the crux of the whole situation in England and Europe, he said, and unless England steps up its coal production the Swedish chemical industry will find itself in difficulty. So far England plans to produce only 200,000,000 tons this year, which is barely enough for her own industry and leaves none for export.

He noted in particular a lack of incentive to work in England, in spite of the government campaign of "work or want." Everyone there appeared to be complaining about the government, he said, instead of trying to improve conditions by producing.

In contrast, Mr. Concannon found a high degree of activity in Holland and Belgium, where the chemical industry is operating close to pre-war level. However, the Indonesian campaign is costing Holland considerable money, he declared, and is the cause for much unrest over the country's future financial position.

He described conditions in France as "pretty sad, very gloomy and a very expensive place to live." He was told that production of basic chemicals was about up to pre-war, but he doubted it. During the war, Mr. Concannon said, Germany worked the French potash industry to death, and he thought it might be well for American industry to consider seriously investing money in this industry.

As to the people generally, they have the attitude that the United States is going to come to their rescue and if they wait long enough this country will give them everything they want. An example of the feeling was typified in a conversation he had with an official of one of the French potash companies. Mr. Concannon said, when asking him why his people did not do more to help themselves, the reply in substance was, "Why, aren't you people going to help us? You are going to have 50 percent more wheat this year than you need. Aren't you going to give to us?"

Mr. Concannon found conditions in Germany to be stymied by too much military and too little civilian operation of the German plants. He visited the big I. G. plant just outside of Frankfort, equipped to manufacture a whole range of chemicals and big enough to employ 10,000 workers. The plant is operating at only 10 percent of capacity because of inefficiency in direction.

SOCMA Has First Meeting of 1947-8 Season

More than sixty representatives of members of the Synthetic Organic Chemical Manufacturers Association attended the first of the 1947-48 luncheon meetings September 10 in New York. They were told that the membership now totals seventy-six, the latest admission being the Lotte Chemical Company, Paterson, N. J.

Informal topics occupied most of the time. The committee on patents and trademarks had nothing new to report. The committee on international commercial relations told of some aspects of the Geneva conference and its chairman, Harold L. Simons, told of some of the changes sought in schedules there considered. The question of dutiability of chemicals produced under United States supervision in Germany was raised. It was generally understood that applicable rates were imposed on imports of such goods."

A special plea was made by President Ralph L. Dorland and several others for volunteers to assist the Office of Technical Service in evaluating, translating and abstracting technical data accumulated through the seizure and collection of records in enemy countries. Secretary C. A. Mace reported several changes in local customs personnel and told of the transferal to special departmental agents of the work of ascertaining United States selling prices of goods offered for import.

Notice was given that the Tariff League would have its banquet October 17. E. F. Kilheffer reported that, at the SOCMA annual dinner, William Henry Chamberlain would talk about Russia. John P. Remensnyder reported that nine applications for membership were under consideration. President Dorland asked for considerations and suggestions in the matter of a place for the 1948 outing. Some suggestions were made. Others were held in abeyance, pending inquiry.

The association will next meet October 8, at which time the nominating committee will be chosen.

Bristol Laboratories Elects McNitt Assistant V. P.

James D McNitt, plant manager of Bristol Laboratories, Inc., penicillin plant in Syracuse, N. Y., was elected as assistant vice-president of the company at a recent meeting of the board of directors in New York. Mr. McNitt, who joined the laboratories in 1944 as a chemical engineer, attended Antioch College and Massachusetts Institute of Technology and was formerly an assistant professor at M.I.T.

Menan Starch Building Two New Idaho Plants

The Menan Starch Company, announces through its exclusive distributor, American Key Products, Inc., New York, that a $150,000 potato starch plant at Idaho Falls, Idaho, will be in operation by October 1, and that a $200,000 plant in Twin Falls, Idaho, will be producing by January 1.

The Idaho Falls plant will have a capacity of about twenty-five tons a day. The former Menan plant, which had a capacity of fifteen tons daily, has been dismantled. In connection with this plant the company will operate a distillery with a production of 1,200 gallons daily of ethyl and denatured alcohol from the by-products of the starch operations.

The Twin Falls plant will produce forty tons a day of high quality powdered potato starch whenever sufficient raw materials are available. The present plant, with a capacity of twenty-two tons will discontinue operations upon completion of the new project.

Washington Talks It Over

The OPD Observer

Delegates of seventeen nations, said to represent 63 percent of world trade, after seven months of negotiations at London, New York, and Geneva, have completed work on the charter draft for the proposed International Trade Organization. The next step will be its submission to Congress for approval—and this will be no easy task. To say that the present temper of Congress is even lukewarm to the proposal would be an exaggeration.

Opponents admit that the idea of the charter basically is good. There can be no real argument against establishment of fair-trade "rules of the game" for the conduct of international commerce, but, they ask, are the rest of the signatory nations ready to give more than lip service to this desirable instrument and follow it in spirit as well as letter? The legislators have to be convinced this is so. That is the principal job cut out for the State department now.

Business organizations generally are in favor of the charter, which may be the factor that will tip the scales in Congress. But it is no assurance that favorable action will come immediately. In fact, the charter will be only one phase in the whole problem of international trade that is coming up for survey when work begins on the question of renewing the life of the reciprocal trade agreements act. This act expires next June.

The charter finally adopted at Geneva is a document of some 4,000 words. Briefly it proposes protection of foreign investments on equal terms with domestic capital and adequate compensation in event of seizure; limitations on restrictive business practices, such as cartels, provision for commodity agreements, ITO prior approval required before quantitative restrictions are imposed, disapproval of subsidies on farm products, or internal taxes on imported products in favor of domestic goods, of antidumping duties and boycotts, and a pledge by the nations to enter into negotiations when requested by ITO for the purpose of lowering tariffs and the elimination of preferences.

Metric Measure for Narcotics

A definite swing away from the use of the avoirdupois system of weights over to the metric system in the packaging and labeling of narcotics is taking place in this drug field. Neither the Bureau of Narcotics nor the Food and Drug Administration is objecting to the change, and it will only be a short time before all the companies in this business will have adopted the metric system.

The switch over to the metric system of

—*Continued on page 34*

Men of Experience

The men who supervise the production of N.Y.Q. products are men of long experience in the manufacture of quality chemicals.

Their background, plus the use of the most modern methods and equipment is your guarantee of purity, high quality, and uniformity.

Specify N. Y. Q. on your orders

MANUFACTURERS OF

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Iodoform
Potassium Iodide (Cryst.-Gran.-Powd.)
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BE CONFIDENT OF HIGHEST QUALITY BY USING N.Y.Q. CHEMICALS

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Nitrilotriacetic Acid

Miscellaneous—Remover of rust and other oxides (Brit. 492526) from metal surfaces (used preferably in alkaline solution to which may be added polishing powders or agents having abrasive action, salts, emulsifying agents, and solvents, or reducing agents, such as sodium sulphide, sodium hyposulphite, or grape sugar).

3:4:5:6:3':4':5':6'-Octachlorodihydroxydiphenylmethane

Disinfectant—Claimed (Brit. 557097) as bactericide.

Insecticide and Fungicide—Claimed (Brit. 557097) as fungicide.

2-Para-aminobenzenesulphonmethylamido-4-methylthiazole

Pharmaceutical—Claimed (Brit. 517272) as therapeutically useful new compound.

Paramethoxythiophenetole

Chemical—New compound claimed (Brit. 544849) of interest to chemists.

3-Phenyl-5-acetanilidomethylenerhodanin

Dye—Starting point (Brit. 517769) in making photographic sensitizer dyes for silver halide emulsions with morpholine or piperidine.

Phenyldiamyltriazene

Fuel—Reducer (U.S. 2136455 and 2136456) of ignition delay period in diesel engine fuels.

Platinum

(Platin, Platina, Platine)

Analysis—Electrode in standard potential cells (see also under Metal Fabrication).

Automotive—Metal for constructing contacts and making contact alloys.

Chemical—Catalyst in decomposition, hydrogenation, oxidation, and reduction reactions.

Coating (cladding) agent for various purposes (see under Metal Fabrication).

Electrode in standard potential cells.

Equipment construction metal for various purposes (see under Metal Fabrication).

Ingredient of alloys for catalytic purposes.

Starting point in making chloroplatinic acid, platinum-ammonium chloride, platinic chloride, and other compounds; platinum black (used as catalyst), platinum-rhodium gauze (used as a catalyst in making nitric acid by the direct oxidation of ammonia).

Dental—Base for continuous gum work.

Ingredient of alloys for various purposes, such as gold-platinum or copper-gold-platinum base alloys (wherever hardness, ductibility, or malleability is required); solders (alloyed with either gold or gold-copper); iridium base alloys (for tooth repair work).

Matrix material for porcelain inlays.

Metal for constructing braces, crowns, pins, and operating instruments.

Strengthening (skeleton) agent for porcelain in the mouth.

Electrical—Metal for constructing contact points for electrical apparatus, heating elements in electrical furnaces, X-ray targets, intensifiers, and anodes.

Electroplating—Metal for constructing electrodes.

Jewelry—Ingredient of various jewelers' alloys.

Metal for constructing ornamental jewelry.

Metallurgical—Ingredient of alloys highly resistant to extreme heat, wear, and corrosion; platinum-iridium, platinum-rhodium, and platinum-nickel alloys.

Metal-Fabrication—Coating (cladding, lining agent) for baser metals used in making insoluble anodes; industrial equipment for the chemical or other industries, where the elimination of contamination is important or where parts or the whole apparatus are exposed to corrosive influences.

Ingredient of alloys used for various purposes.

Metal for constructing furnace windings; industrial processing equipment for the chemical or other industries; laboratory ware; linings; spinnettes used for the extrusion of rayon and other synthetic fibers; thermocouples.

Miscellaneous—Metal for constructing cigaret and cigar cases, gifts and novelties of various kinds, thermostatic parts, thermocouples.

Textile—Metal for constructing spinnerettes used for the extrusion of synthetic fibers of various kinds.

Chemistry Congress Plans Next Meeting in America

OPD Washington Bureau

The International Congress of Pure and Applied Chemistry will hold its next formal meeting in the United States, Charles C. Concannon, chief of the chemicals and drug division of the Department of Commerce, announced last week upon his return from the London meeting of the congress. The next meeting will be held in 1951, but the exact date has not been determined, nor has the city in which it is to be held been selected.

NPVLA and Contractors Association Form Committee

A cooperative industry committee composed of members of the National Paint, Varnish and Lacquer Association and the Painting and Decorating Contractors Association was set up last week to work on problems and programs of common interest to both of these branches of the paint industry. Announcement of the new group was made jointly by Ernest T. Trigg, president of NPVLA, and Michael W. McCarthy, chairman of the board of the Painting and Decorating Contractors Association.

The committee is composed of eight members, four from each of the associations. The manufacturers' representatives are:—Joseph F. Battley, special assistant to Mr. Trigg; Thurlow J. Campbell, president of Valspar Corporation, New York City; Elbert D. Peck, general paint manager of Pittsburgh Plate Glass Company, and Mr. Trigg. Those representing the contractors are:—Richard H. Bohl, of Bohl Painting Company, Columbus, Ohio; John B. Dewar, of John B. Dewar Company, Pittsburgh; Gordon P. Marshall of H. Newton Marshall Company, Boston, and Mr. McCarthy.

The first meeting of the group will be held late this month for the purpose of organizing. The joint announcement expressed the belief that creation and operation of the committee "will mean a real forward step in the working relations and closer integration of the painting industries."

ADMA Names Entertainment Committee for '48 Convention

The American Drug Manufacturers Association has appointed the following members to serve on the entertainment committee for the 1948 annual convention:—R. B. Magnus, Magnus, Mabee & Reynard, Inc., chairman; M. N. deNoyelles, Chas. Pfizer & Co., vice-chairman; A. A. Wasserscheid, Mallinckrodt Chemical Works, honorary chairman; W. D. Barry, Mallinckrodt; Herman J. Dietel and Gerald S. Furman, Merck & Co.; Joseph A. Huisking, Fritzsche Bros., Inc.; R. P. Neptun and S. B. Penick, jr., S. B. Penick & Co.; F. J. Reid, New York Quinine & Chemical Works, Inc.; J. P. Remensnyder, Heyden Chemical Corporation; Clayton S. Shoemaker, Dow Chemical Company; Chas. P. Walker, jr., Citro Chemical Company; and V. E. Williams, Monsanto Chemical Company.

National Public Purchasing Academy Creation Revealed

Members of the National Institute of Governmental Purchasing heard officials of the Federal government promise cooperation, and received a message from President Truman urging improvements of buying practices at meeting held at the Pennsylvania hotel, New York, on September 8 to 11.

The president's message commended the association for its desire to improve the standards and practices of public purchasing through the establishment of a National Academy for Public Purchasing. The actual establishment of such an organization was announced by Clifton E. Mack, director of the bureau of federal supply of the Treasury Department, under which the academy will function.

The academy will provide a nationwide interchange of knowledge on buying practices and techniques as its objective, Mr. Mack said, and added that Federal, state and municipal purchasing officers will be provided the opportunity to attend training sessions periodically in Washington to hear outstanding figures in the purchasing world and to study latest procurement techniques.

The basic idea for the academy was suggested by W. Z. Betts, director of the division of purchase and contract for North Carolina, who pointed out that lack of adequate facilities for keeping abreast of purchasing methods and market developments were handicapping many purchasing men.

WAA Surplus Discounts

Second Federal official to address the group was John R. Campbell, director, priority claimants division of the War Assets Administration, who disclosed that a discount rate of 95 percent has been extended to about 78 percent of the remaining personal surplus property on purchases by agencies for health and educational branches of governments.

He pointed out that large savings to taxpayers are made possible by new war surplus disposal policies opening larger quantities of supplies and equipment to low-cost procurement by city, county, state and Federal purchasing offices, and added that WAA policies are being formed for announcement of an extended warehouse deactivation program.

Under the program to be announced in the near future, he said, items scheduled for "emergency clearance" from surplus warehouses will also be offered to governmental buyers at 95 percent discount.

Outright Donations Urged

Albert Pleydell, president of the institute, who had previously warned WAA that the organization expected it to announce these two developments, said that the governmental purchasing agents approved these new policies, but added that they did not go far enough. He explained that these policies still do not permit police, fire, road-building and administrative departments to buy at discounted prices, and urged that outright donations be made, which he said are now permitted under the surplus property disposal law.

At an earlier session, WAA was asked to formulate a plan to set aside war surplus office furniture for the needs of state and local governments that do not benefit under the surplus property disposal law by Harry McArdle, director of surplus property procurement of the Department of Purchase of the City of New York.

During the closing sessions, the meeting adopted a resolution recommending that the War Assets Administration institute an "outright donation program" for disposal of surplus to governmental agencies at all levels of government.

Exposing Price-Fixing

Officials of the cities of New York and Milwaukee urged the assembled purchasers to launch a drive to expose racketeers in materials and conspirators in price-fixing. Commissioner of Investigation John M. Murtagh, of New York, and Joseph W. Nicholson, purchasing agent for the City of Milwaukee, emphasized the savings of taxpayers money that can be realized by exposing such practices.

Mr. Nicholson asked the members to re-

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Purchasing Agents Name National Group Leaders

The chairmen of the existing national groups in the National Association of Purchasing Agents are listed in the association's bulletin as follows:—

Banking, insurance, and general office buyers, Ralph V. Boone, of the State Farm Mutual Automobile Insurance Company, Bloomington, Ill.

Chemical and allied products buyers, Joseph F. Parsons, of the Monsanto Chemical Company, 1700 South Second street, St. Louis 4.

Editors, L. A. Auberlin, of the *Detroit Purchaser*, 310 Stephenson building, Detroit 2.

Food industries buyers; William B. Cummings, of the New England Confectionery Company, 254 Massachusetts avenue, Cambridge 39, Mass.

Governmental, educational, and institutional buyers, Franklyn A. Adams, State Purchasing Agent, room 110, State House, Providence, R. I.

Oil company buyers, Owen D. Story, of the Shell Oil Company, Postoffice box 2099, Houston 1, Texas.

Public utility buyers, Charles F. Wilson, of the Lone Star Gas Company, 1915 Wood street, Dallas 1, Texas.

Pulp and paper manufacturers buyers, Bernard Victor, of the Lowe Paper Company, Ridgefield, N. J.

Mattiello Represents U.S. In Paris Paint Conference

Joseph J. Mattiello, Ph.D., vice-president and technical director of the Hilo Varnish Corporation, Brooklyn, will represent the industry in the United States at the first Technical International Congress of the Paint and Associated Industries in Paris, France, October 1 to 7. As the representative of the Federation of Paint and Varnish Production Clubs, he will have an important part in the launching of a triple alliance of the technical men of the industry in France, the United Kingdom, and the United States. Dr. Mattiello did much of the work in developing last year the liaison between the federation and the British Oil and Colour Chemists Association. He will present at the Paris conference salutations from the National Paint, Varnish and Lacquer Association, as well as the technicians' federation.

On his way to Paris, Dr. Mattiello will stop in England where he will be a special guest at a cocktail party in London and at the celebration of the twenty-first anniversary of the paint research station at Teddington. He is scheduled to address several technical groups in England and in France.

Association Meeting Dates

American Association of Textile Chemists and Colorists, Congress hotel, Chicago, October 23-25.

American Chemical Society, Pennsylvania hotel, New York, September 15-19.

American Institute of Chemical Engineers, Detroit, November 10-12.

American Oil Chemist's Society, Edgewater Beach hotel, Chicago, October 20-22.

American Pharmaceutical Manufacturers Association, Waldorf-Astoria hotel, New York, December 15-17.

Boston Conference on Distribution, Statler hotel, Boston, October 20-21.

Chemical Industries Exposition, Grand Central Palace, New York, December 1-6.

Combined Pharmaceutical Contact Committee, Statler hotel, Washington, D. C., November 13-14.

Drug, Chemical and Allied Trade Section, New York Board of Trade, Shawnee Inn, Shawnee-on-Delaware, Pa., September 25-26.

Electrochemical Society Conference, Copley-Plaza hotel, Boston, September 15-18.

Federal Wholesale Druggist Association, French Lick Springs hotel, French Lick, Ind., October 8-10.

Federation of Paint & Varnish Production Clubs, Ambassador hotel, Atlantic City, November 7-10.

National Association of Insecticide & Disinfectant Manufacturers, Lord Baltimore hotel, Baltimore, December 1-3.

National Association of Printing Ink Makers, Shoreham hotel, Washington, D. C., October 1-3.

National Association of Retail Druggists, Sherman and Morrison hotels, Chicago, October 12-16.

National Association of Wholesalers, Pennsylvania hotel, N. Y., October 6-7.

National Barrel & Drum Association, Pennsylvania hotel, New York, November 3-5.

National Fertilizer Association, Atlanta-Biltmore hotel, Atlanta, Ga., November 10-12.

National Foreign Trade Council, St. Louis, October 20-22.

National Paint Salesmen's Association, Madison hotel, Atlantic City, October 16-18.

National Paint, Varnish & Lacquer Association, Ambassador hotel, Atlantic City, November 11-14.

National Pest Control Association, Bellevue-Stratford hotel, Philadelphia, Pa., October 27-29.

National Petroleum Association, Traymore hotel, Atlantic City, September 17-19.

National Wholesale Druggists Association, Ritz Carlton hotel, Atlantic City, N. J., October 18-23.

New York Board of Trade, Waldorf-Astoria hotel, October 23.

Northeastern Wood Utilization Council, conference on lignin, Sterling hall of chemistry, Yale University, September 19.

Pacific Chemical Exposition, San Francisco, October 21-25.

Packaging Machinery Manufacturers Institute, Sheridan hotel, Springfield, Mass., October 6-7.

A.A. Northacker Heads Purchasing Assistants Club

Alfred A. Northacker, buyer for the M. W. Kellogg Company, New York, has been elected president of the Metropolitan Purchasers Assistants Club. The club meets at the Midston house, Thirty-eighth street and Madison avenue, New York.

Pharmaceutical Contact Committee Meets Nov. 13-14

The Combined Pharmaceutical Contact Committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association will meet at the Statler hotel, Washington, D. C., November 13-14.

MERCK IS SERVING THE INSECTICIDE INDUSTRY AS A BASIC SOURCE OF SUPPLY FOR DDT

An aerial view of the Main Plant of Merck & Co., Inc. at Rahway, N. J.

Because of greatly expanded production and sufficient raw materials, we now are in a position to serve an increasing number of manufacturers of DDT insecticides.

The product we offer is—

DDT
TECHNICAL
(dichloro-diphenyl-trichloroethane)

Setting point 89° C. Minimum
For Manufacturing Purposes Only

Please address your inquiry to the Insecticide Products Department, Merck & Co., Inc. Rahway, N. J.

DDT TECHNICAL

For the Manufacture of Agricultural, Livestock, Horticultural, and Household Insecticides

MERCK & CO., Inc. RAHWAY, N. J.

Manufacturing Chemists

New York, N. Y. • Philadelphia, Pa. • St. Louis, Mo. • Chicago, Ill. • Elkton, Va.
Los Angeles, Calif. • *In Canada:* MERCK & CO., Ltd. Montreal • Toronto • Valleyfield

MERCK MERCK

Current Market Quotations

Chemicals and Related Materials

September 12, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works.....lb. .14 - .15
tanks, works.....lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .38 - .43

Acetanilide, tech., bbls., c.l.....lb. .19 - —
l.c.l. .....lb. .20 - .25
kgs. .....lb. .25 - —
USP, bbls., 2,000-lb. lots.....lb. .40 - .41
smaller lots.....lb. .41 - .42

Acetic anhydride, dms., c.l., frt. all. E. lb. .13 - —
l.c.l., frt. alld. E.....lb. .14½ - —
tanks, frt. alld. E.....lb. .11 - —

Acetoacetanilide, bbls., dms.....lb .09½ - —

Acetone, CP, dms., c.l., dlvd.....lb. .08 - .09
l.c.l., dlvd. .....lb. .08½ - .09½
tanks, dlvd. .....lb. .07 - .08
Methyl (see M).

Acetonitrile, dms., c.l., works.....lb. .47 - —
l.c.l., works.....lb. .50 - —
smaller containers, works.....lb. .55 - .60

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots. lb. 1.00 - —
dms. .....lb. 1.05 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75
Acetyl chloride, cbys., works.....lb. .60 - —
Acid, abietic, dms., c.l., works.....lb. .07½ - —
Acetic, com'l or redist., 28%, bbls .. 100 lbs. 3.78 - 4.03
50%, bbls.....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs. 10.80 - 11.05
glacial, synthetic, C.P., dms., works 100 lbs. 13.20 - 13.75
tanks, works.....100 lbs. 7.62 - 7.92
tech., dms., works.....100 lbs. 9.90 - 10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works.....100 lbs. 11.60 - 11.65

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64
standard, fine, crvst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis..lb. .45 - .50

Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis

Aminoacetic, NF, bbls., frt. adjusted, lb. 1.50 - 1.75
Anthranilic, resub., bbls.....lb. 2.60 - 2.30
tech., bbls.....lb. 1.00 - 1.35
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs.....lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots... kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots. kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —
Battery, cbys., c.l., E. works.100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .42 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .58
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Benzoxynaphthoic, bbls., works....lb. 1.05 - —
Boric, tech., 99.5%, cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 - —
ton lots, ex whse. N. Y. or Chi..ton.122.50 - —
less ton lots, same basis.ton.127.50 - —
bbls., c.l., frt. alld.....ton.124.00 - —
ton lots, ex whse. N. Y. or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —
gran., bulk.....ton.95.50 - —
paper bgs., c.l., frt. alld...ton.99.00 - —
ton lots, ex whse., N. Y. or Chi..ton117.50 - —
less ton lots, same basis.ton.122.50 - —
bbls., c.l., frt. alld.....ton.119.00 - —
ton lots, ex whse., N. Y. or Chi..ton.137.50 - —
less ton lots, same basis..ton142.50 - —
USP $25 per ton higher.
Cottonseed oil, s.d., dms.....lb. 15¾ - .16
Brenner's, bots.....lb. 1.22 - —
Butyric, 99%, dms., c.l., works....lb. .32 - —
l.c.l., works.....lb. .33 - —
Cacodylic, bots.....lb.13.00 - 16.50
Camphoric, natural, dms.....lb. 8.00 - 8.50
synth. dms. .....lb. 6.00 - 6.50
Capric, tech., ret. dms.....lb. .45 - —
Caprylic, 99%, dms.....lb. .50 - —
Castor oil, split, ret. dms.....lb. .34½ - —
Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03½ - .04½
tanks, works.....lb. .02½ - —
Chromic, 99½-99¾%, dms., c.l.....lb. .21¾ - —
l.c.l. .....lb. .22¼ - .22¾
Cinnamic, refd., bots.....lb. 3.00 - 4.00
Citric, anhyd., gran., fine gran., bbls. lb. .25½ - —
dms., c.l.....lb. .24½ - —
10,000 lbs., 1 ship't.....lb. .25 - —
kgs. .....lb. .26 - —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., bbls., c.l.....lb. .25 - —
kgs. .....lb. .26½ - —
gran., fine gran., bbls., c.l....lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½ - —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½ - —
USP citric acid powder, ½c. per lb. higher.
Clove's, bbls.....lb. .65 - 1.00
Coconut oil, dist., dms.....lb. .22¼ - .22¾
Cora oil, s.d., dms.....lb. .15¾ - .16
10,000 lbs., 1 ship't.....lb. .25½ - —
smaller lots.....lb. .26 - —

Acid, cresylic, dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald. gal. 1.26 - —
l.c.l., same basis.....gal. 1.29 - —
tanks, same basis.....gal. 1.20 - —
Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref....gal. .616 - —
1-19, Cal., ref.....gal. .510 - —
Sewaren, N. J., ref.....gal. .630 - —
tanks, dlvd.....gal. .586 - —
medium grade (200°-246°), dms., 20, Cal. ref..gal. .50 - —
Sewaren, N. J., ref....gal. .636 - —
1-19, Cal. ref.....gal. .570 - —
Sewaren, N. J., ref....gal. .696 - —
tanks, dlvd.....gal. .646 - —
Crotonic, bbls., Canadian, works...lb. .25 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .90
Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., works....lb. .12 - —
l.c.l., works.....lb. .12½ - .14½
90%, cbys., c.l., works.....lb. .12½ - —
l.c.l., works.....lb. .13 - .14½
Fumaric, tech., bbls., dms.....lb. .27 - .31
Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.23 - —
smaller lots.....lb. 1.26 - 1.28
Gamma, bbls.....lb. 1.07 - —
Gluconic, tech., 50%, bots.....lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —
Glycolic (see Acid, hydroxyacetic).
H, bbls., works.....lb. .50 - —
Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys.....lb. 2.83 - 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., dlvd. E.....lb. .45 - —
34%, cbys., dlvd. E.....lb. .35 - .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots.....lb. .30 - .40
Hydrofluoric, anhyd., cyls., works..lb. .19 - .19½
tanks, works.....lb. .16 - —
30%, rubber dms., works.....lb .08 - .09
48%, rubber dms., works.....lb .12 - —
52%, rubber dms., works.....lb. .12½ - —
60%, rubber dms., works.....lb. .13½ - —
Hydrofluosilicic, 30-35%, bbls.....lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila..lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .085 - —
Hypophosphorous, USP, djns.....lb. .75 - .77
Lactic, edible, 50%, bbls., 20 or more. lb. .14½ - —
smaller lots.....lb. .15 - —
80%, bbls., 5 or less.....lb. .24¼ - .24¾
plastic grade, 50%, bbls., 20 or more. lb. .17¾ - —
10 or less.....lb. .18¼ - —
80%, bbls., 5 or less.....lb. .31¾ - .32½
tech., 22%, bbls., c.l., works.100 lbs. 4.40 - —
l.c.l., works.....100 lbs. 4.80 - —
cbys., works.....100 lbs. 5.30 - —
44%, bbls., c.l., works.....100 lbs. 8.15 - —
l.c.l., bbls., works.....100 lbs. 8.55 - —
cbys., works.....100 lbs. 9.05 - —
USP XII, 85%, cbys.....lb. .54 - .57
USP VIII, 75%, cbys.....lb. .52 - .55
Laurent's, bbls.....lb. .70 - —
Lauric, dist., 85%, dms.....lb. .29½ - .30
60%, dms. .....lb. .24¼ - .24¾
Linseed oil, light, dms.....lb. .40 - .41
Malic, powd., dms.....lb. .28 - .30
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit.....lb. .05 - .08
sulphuric unit.....lb. .0085 - .009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloracetic, purified, flake, 99%, dms..lb. .21 - .22½
tech., flake, 96-97%, dms.....lb. .17 - .18
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works. 100 lbs. 1.50 - 1.70
l.c.l., E. works.....100 lbs. 1.90 - 2.90
tanks, E. works.....ton.18.00 - 18.50
20°, cbys., c.l., E. works....100 lbs. 1.85 - 2.00
tanks, E. works.....ton.20.00 - 21.00
22°, cbys., c.l., E. works....100 lbs. 2.25 - 2.50
tanks, E. works.....ton.22.00 - 26.00
CP, USP, consumers, cbys. extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½ - —
6-lb. bots., extra.....lb. .08½ - —
Myristic, dist., dms.....lb. .40 - —
Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works.....lb. .10 - —
230-240 acidity, dms., extra, works. lb. .20 - —
tanks, works.....lb. .17 - —
Neville and Winthers, dms.....lb. .73 - —
Nicotinic, USP, dms., works.....kilo. 6.00 - 6.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works....100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 7.00 - 7.25
CP, USP, consumers, cbys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, cbys., extra.....lb. .11½ - —
7-lb. bots., cs., extra.....lb. .13½ - —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic, bbls., c.l., works.....lb. .13 - —
10,000 lbs., works.....lb. .13¼ - —
smaller lots, works.....lb. .14 - —
Palm oil, white, dist., dms.....lb. .18¼ - .18¾
Para-aminobenzoic, purified, dms., works..lb. 4.00 - —
technical, bbls., works.....lb. 1.70 - —
Paranitrobenzoic, cns.....lb. .80 - —

Acid, paratoluidinmetasulphonic, bbls., works..lb. .85 - —
Peanut oil, s.d., dms., c.l.....lb. .15¾ - —
tanks .....lb. .14½ - —
Phenylacetic, bots.....lb 1.51 - 1.75
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..... 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.25 - 6.25
cbys., c.l., works, frt. equald.. 100 lbs. 5.00 - —
l.c.l., works, frt. alld..100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.25 - —
cbys., c.l., works, frt. equald. 100 lbs. 5.60 - —
l.c.l., works, frt. alld..... 100 lbs. 7.75 - 8.75
tanks, works, frt equald.... 100 lbs. 4.65 - —
USP XII, 85%, 100-lb. cbys., c.l. lb. .10½ - —
l.c.l. .....lb. .11½ - .13
70-lb. cbys.....lb. .10½ - —
l.c.l. .....lb. .11½ - .13
dilut., 10% cbys., djns.....lb. .07 - .07½
Picramic, bgs.....lb. .65 - .70
Picric, bbls.....lb. .30 - .31
Propionic, nat., dms., works....lb. .18 - —
tanks, works.....lb. .17 - —
synth., pure, dms., works.....lb. .22 - —
tanks, works.....lb. .21 - —
Pyrogallic, tech., bbls.....lb. No prices
N.F., cryst., dms.....lb. 2.80 - 3.03
resub., dms.....lb. 3.30 - 3.45
Pyroligneous, bbls, incl., l.c.l. ex whse..gal. .41 - —
Ricinoleic (see Acid, castor oil, split).
Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots .....lb. .47 - —
Sebacic, tech., dms., c.l., works....lb. No stocks
Soybean oil, s.d., dms., works.....lb. 15¾ - 16¼
Stearic, double pressed, bgs.....lb. .23 - .24
single pressed, bgs.....lb. .22½ - .23½
triple pressed, bgs.....lb. .23¼ - .20¾
Succinic, bbls. .....lb. .87 - .90
Sulfanilic, CP, bots., works.....lb 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works. 100 lbs. 1.35 - 1.40
l.c.l., E. works.....100 lbs. 1.70 - 2.00
tanks, E. works.....ton.13.00 - 13.50
66°, cbys., c.l., E. works....100 lbs. 1.55 - 1.70
l.c.l., E. works.....100 lbs. 2.05 - 2.75
tanks, E. works.....ton.16.50 - 17.50
98%, tanks, E. works.....ton.17.50 - 18.56
C.P., N.F., consumers cbys., extra. lb. .08 - —
9-lb. bots., cs., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½ - —
9-lb. bots., cs., extra.....lb. .08½ - —
fuming, 20% tanks, E. works..ton.19.50 - 20.50
Tallow, dist., dms.....lb. .16¾ - .16¾
Tannic, tech., 60-62%, dms.....lb. .68 - .69
70%, H.P., dms.....lb. .80 - .90
72-74%, dms. .....lb. .80 - .90
USP, fluffy, bbls., 1,000-lbs. lots..lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb. 1.35 - —
smaller lots .....lb. 1.36 - 1.56
Tartaric, USP, bbls., 10,000 lbs., 1 ship't..lb. .49½ - —
smaller lots .....lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .70 - —
Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.97 - 2.00
tech., bbls., cbys., basis 100%....lb. 1.40 - —
Tobias, bbls. .....lb. .60 - .62
Trichloracetic, bots. .....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkgs.....lb. 3.10 Nom.
pure, 100-lb. kgs.....lb. 2.80 Nom.
Aconite leaves, bls.....lb. .60 - .65
Root, bls .....lb. 1.10 - 1.18
Aconitine, amorph., mild, bots.....oz.32.50 - —
cryst., potent, bots.....oz.85.00 - —
Acrylonitrile, dms., c.l., works....lb. .29½ - —
l.c.l., works.....lb. .30½ - .42½
tanks, works.....lb. .28½ - —
Adeps lanae (see Lanolin).
Aconis vernalis herb, bls.....lb. .65 - .70
Agar .....lb. 3.85 Nom.
Agaric, white, bls.....lb. 2.75 - 3.00
Agrimony herb, bls.....lb. .40 - .45
Albumen (egg), edible flake, bbls. lb. 2.30 - 2.40
powd., bbls. .....lb. 2.35 - 2.45
tech., cryst., bbls.....lb. 1.15 - 1.25
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l.....lb. .70 - .75
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd.....lb. .21½ - —
l.c.l., dlvd. .....lb. .22 - —
tanks, dlvd. .....lb. .20 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss.....lb. .161 - —
l.c.l., frt. alld. E. of Miss..lb. .171 - —
tanks, frt. alld. E. of Miss..lb. .151 - —
(see also Fusel oil, ref.).
Benzyl, cns. .....lb. .72 - .80
dms. .....lb. .68 - —
Butyl, normal, ferment., Ill., Ind. prod., dms., c.l., frt. alld....lb. .30½ - —
l.c.l., frt. alld. E.....lb. .31½ - —
tanks, frt. alld. E.....lb. .29 - —
tankwagon, frt. alld. E....lb. .29½ - —
other production, dms., c.l., frt. alld. E..lb. .30½ - —
l.c.l., frt. alld. E.....lb. .31½ - —
tanks, frt. alld. E.....lb. .29 - —
synthetic, dms., c.l., frt. alld. E..lb. .17½ - —
l.c.l., frt. alld. E.....lb. .18 - —
tanks, frt. alld E.....lb. .16½ - —
Normal butyl alcohol prices in West, ½c. per lb. higher.
secondary, dms., c.l., dlvd.....lb. .11 - —
l.c.l., dlvd. .....lb. .11½ - —
tanks, dlvd. .....lb. .09½ - —
tertiary, dms., c.l.....lb. .12½ - —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —
Caprvl, dms., c.l., works.....lb. .17½ - —
l.c.l., works.....lb. .18½ - —
tanks, works.....lb. .16 - —
Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.55
Cinnamic, bots. .....lb. 3.00 - —

Acacia—Aluminum Hydrate

Alcohol, denatured, CD12, CD13, dms., c.l., E. works..gal. .94 - —
l.c.l., E. works.....gal. .98 - 1.03
tanks, E. works.....gal. .87 - —
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., E. works, gal. .94 - —
l.c.l., E. works.....gal. .98 - 1.03
tanks, E. works.....gal. .87 - —
SD2B, dms., c.l., E. works.....gal. .94 - —
l.c.l., E. works.....gal. .98½ - 1.03¼
tanks, E. works.....gal. .87½ - —
SD23H, dms., c.l., E. works....gal. .92½ - —
l.c.l., E. works.....gal. .96½ - 1.01¼
tanks, E. works.....gal. .85½ - —
SD29, denatured with acetaldehyde, dms., c.l., E. works..gal. .93 - —
l.c.l., E. works.....gal. .99 - 1.04
tanks, E. works.....gal. .88 - —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Special solvent, dms., c.l., E. works, gal. .94½ - —
l.c.l., E. works.....gal. .98½ - 1.03¼
tanks, E. works.....gal. .87½ - —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone free, dms., c.l., dlvd..lb. .12½ - —
l.c.l., dlvd .....lb. .13½ - —
tanks, dlvd.....lb. .11 - —
tech., dms., c.l., dlvd.....lb. .14½ - —
l.c.l., dlvd.....lb. .15½ - —
tanks, dlvd.....lb. .13 - —
Ethyl, 190 pf., dms., c.l., E. works gal.18.04 - —
l.c.l., E. works.....gal.18.08 - 18.13
tanks, E. works.....gal.17.97 - —
absolute, dms., c.l., E. works..gal.19.01 - —
l.c.l., E. works.....gal.19.05 - 19.10
tanks, E. works.....gal.18.94 - —
Ethylhexyl, dms., c.l. works.....lb. .25 - —
l.c.l., works.....lb. .26 - —
tanks, works.....lb. .24 - —
Furfuryl, tech., cns., works.....lb. .35 - —
dms., c.l., works.....lb. .22½ - —
l.c.l., works.....lb. .25 - —
tanks, works.....lb. .19 - —
Isoamyl (see Carbinol, Isobutyl).
Isobutyl, refd., dms. works.....lb. .13 - —
tanks, works.....lb. .12 - —
Isopropyl, refd., 91% dms., Incl., c.l., dlvd..gal. .44 - .47½
l.c.l., dlvd .....gal. .47 - .50½
tanks, dlvd.....gal. .37 - .38
99% dms., incl. c.l. dlvd.....gal. .47½ - .50½
l.c.l., dlvd.....gal. .50½ - .53
tanks, dlvd.....gal. .40½ - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumer's grade, bots.....lb. 4.00 - 4.40
Phenylethyl, dms .....lb. 2.30 - 3.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis..lb. .60 - .68
Propyl, normal, dms., works.....gal. .82 - —
tanks, works.....gal. .75 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y.....lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, Niagara Falls, N. Y.....lb. .36 - —
Aldol, 95%, dms., works.....lb. .15 - —
denaturing grade, dms.....gal. 1.30 - —
Aletris root, bgs.....lb. 2.20 - 2.25
Algin, bbls., fib. dms.....lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .75 - .80
Allspice, Jamaica (see Pimento).
Mexican, bgs.....lb. .14½ - 15¼
Allyl bromide, cbys., 5,000 lbs., works lb. .80 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .14½ - —
tanks, dlvd.....lb. .12½ - —
Aloe, Cape, cs.....lb. .36 - —
Curacao, kgs.....lb. .37 - —
Socotrine, kgs.....lb. .46 - .47
Alpin, bbls., dms., kgs.....lb. 4.50 - 4.50
Alphanaphthol, bbls.....lb. .64 - —
Alphanaphthylamine, bbls.....lb. .35 - .35¼
Alphanaphthylhiourea, fib. dms., works, frt. alld..lb. 4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald..lb. .24 - .27¼
Alphapinene, tanks, S. works.....gal. .59 - —
Alphaterpineol, dms., c.l. works....lb. .1340- —
l.c.l., works.....lb. .1390- —
tanks, works.....lb. .1200- —
Alphatocopherol, amonis.....kilo.750.00 - —
Althea root, NF, pefd. bls.....lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs. lb. .16 - .18
gran., bbls., works.....100 lbs. 4.00 - —
lump, bbls., works.....100 lbs. 4.25 - —
powd., bbls., works.....100 lbs. 4.40 - —
Potash, gran., bbls., works...100 lbs. 4.25 - —
lump, bbls., works.....100 lbs. 4.50 - —
powd., bbls., works.....100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. .12½ - .13
Soda, bbls., c.l., works.....100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified grade, grd., kgs., works..lb. .35 - .37
top grade, grd., kgs., works.....lb. .06 - .07
unclassified, grd., kgs., works...lb. .10½ - .40
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works.....lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works.....lb. .10½ - —
cryst., com'l, dms., c.l., works..lb. .06 - —
l.c.l., works.....lb. .06½ - .08¾
solution, 32°, cbys., c.l., works...lb. .02¾ - —
l.c.l., works.....lb. .03¼ - —
Fluoride, tech., bbls.....lb. .25 - —
Formate, solution, 19° Be., bbls., c.l. lb. .09½ - —
l.c.l., works.....lb. .10 - —
Hydrate, heavy, bzz, c.l., works..ton.56.00 - —
l.c.l., works.....ton.76.00 - —
light, bgs., dlvd.....lb. .17 - —

Aluminum Hydroxide—Barberry Root Bark

Aluminum, hydroxide gel, tech., min. 15% Al $(OH)_3$, dms., 10,000 lbs. or more, f.o.b. ship't point..lb. .03 - .03¼
ton lots, same basis.....lb. .03¼ - .05½
smaller lots, same basis....lb. .03¾ - .04
9-9½% Al_2O_3, fib dms., works..lb. .17¾ - —
contract, works.....lb. .14¾ - —
14-15% Al_2O_3, fib. dms., works..lb. .20¾ - —
contract, works.....lb. .19¾ - —
dried USP XII, fib. dms., works lb. .78 - —
contract, works.....lb. .75 - —
powder, tech (see Alumina hydrate).
USP IX, bbls., dms.....lb. .15 - .17
Laurate, precip., bbls.....lb. .42 - —
Linoleate, solid, bbls.....lb. 51¼ - —
Metal, 98-99%, ingots, 10,000 lbs.lb. .15 - —
pigs, 10,000 lbs.....lb. .14 - —
Naphthenate, 1.7% Al, dms., wks.lb. .19 - —
Oleate, dms., contract.....lb. .43½ - —
Paste, lining, extra fine, 200-lb. dms. lb. .56 - .60
ink, 150-lb. dms.....lb. .71 - —
standard, 200-lb. dms.....lb. .58 - —
Powder, lining, extra fine, 150-lb. dms..lb. .93 - —
litho, 150-lb. dms.....lb. .60 - —
standard, 200-lb. dms.....lb. .62 - —
rubber comp., 200-lb. dms.....lb. .42 - —
unpolished, stand., dms.....lb. .38 - —
varnish, stand., 300-lb. dms...lb. .46 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Aluminum resinate, precip., dms...lb. .30½ - —
Stearate, dibasic, ctns., c.l.....lb. .39 - —
l.c.l.....lb. .40 - —
monobasic, ctns., c.l.....lb. .39 - —
l.c.l.....lb. .40 - —
tribasic, ctns., c.l.....lb. .44 - —
less ton quantities.....lb. .46 - —
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - 1.30
l.c.l., same basis.....100 lbs. 1.40 - 1.50
bbls., c.l., same basis.....100 lbs. 1.55 - 1.60
l.c.l., same basis.....100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works..100 lbs. 1.95 - 2.25
l.c.l. works.....100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate)
Ambergris, gray, tins.....oz. 8.50 -12.00
Aminoethylpropanol, cns., dms., works. lb. .50 - .60
Aminoethylethanolamine, tanks, works. lb. .50 - —
Aminopyrine, bots., dms.....lb. 4.50 - 4.75
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald..ton.59.00 - —
pure, cyls., extra.....lb. .16 - —
refrigeration, tanks, works....ton 61.50 - —
Aqua, dms., c.l., works.....lb. .03 - .03¼
l.c.l., works.....lb. .03½ - —
tanks, works (NH_3 content)....ton 65.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
white, gran., bbls., c.l., works.. 100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.90 - —
Ammonium acetate, purified, bbls..lb. .32 - —
reagent, bbls.....lb. .24 - —
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld..lb. .43 - —
smaller lots, frt. alld.....lb. .44 - .47
Biborate, bbls., c.l., works.....ton.332.00 - —
ton lots, works.....ton.388.50 - —
less ton lots, works.....ton.343.50 - —
Bicarbonate, dms., works, c.l.....lb. .064 - .0975
Bichromate, bbls., works.....lb. .26 - .30
Bifluoride, bbls.....lb. .15 - .15½
Bromide, gran., NF, bbls.....lb. .31 - —
dms.....lb. .32 - —
powdered ammonia bromide 10c. per lb higher.
Carbonate, USP, lump, dms.....lb. .08¼ - .09¼
powdered 1c. per lb higher.
Chloride, tech. (see Ammoniac, sal).
USP, bbls., dms., kgs.....lb. .13 - .15
Citrate, dibasic, bbls.....lb. .75 - —
dms.....lb. .80 - .85
Fluoride (see Bifluoride)
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms.....lb. 1.25 - 1.27
Iodide, NF, jars.....lb. 3.00 - 3.96
Linoleate, 80% plastic, dms., works. lb. .40½ - —
kgs., works.....lb. .42½ - —
25%, dms., frt. alld. zone 1.....lb .21½ - —
tech., bbls., works.....lb. .37 - —
dms., works.....lb. .39 - —
Molybdate, CP, cryst., kgs.....lb. 1.26 - 1.30
fine cryst., bbls., kgs.....lb. .84 - .87
purified, dms.....lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point..ton.62.75 - —
Ammonium nitrate-limestone, 20.5% N, bgs., Hopewell, Va..ton 33.00 - —
Oleate, dms.....lb. .14 - —
Oxalate, fine gran., bbls.....lb. .23 - —
dms.....lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. ton.230.00 - —
ton lots, works.....ton.248.50 - —
less ton lots, works.....ton.253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs.....lb. .25 - —
Persulphate, kgs.....lb. .25½ - .28½
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works.....lb. .07 - —
l.c.l., works.....lb. .07¾ - —
monobasic, pure, bbls.....lb. .39 - .41
tech., bgs., c.l., works.....lb. .07 - —
l.c.l., works.....lb. .07¾ - .08¾
Salicylate, NF, dms., kgs.....lb. 1.25 - —
Silicofluoride, bbls.....lb. .15 - .16
Stearate, anhydrous, dms.....lb. .34 - —
paste, dms.....lb. .06½ - —
Sulphamate, bbls., dms., works...lb. .18 - .20
Sulphate, bulk, producing ovens..tons.35.00 -38.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .15 - —
tanks dlvd or frt. alld...lb. .08½ - —
red, 48%, cbys., works.....lb. .08 - —
dms., works.....lb. .06 - —
yellow, 33%, cbys., works.....lb. .08 - —
dms., works.....lb. .06 - —
Sulphocyanide, pure, bbls.....lb. .60 - .68
tech., bbls.....lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide)
Thioglycolate, highly purified, 100% basis, bbls..lb. 7.10 - 8.25
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .25½ - —
l.c.l., dlvd.....lb. .28½ - —
tanks, dlvd.....lb. .24 - —
ex pentane, dms. c.l., frt., alld. E. of Miss. R..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms.....lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether (see Ether, amyl).
Nitrite, USP, bots.....lb. 1.75 - 1.83
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, cns.....lb. .77 - .87
Stearate, dms., works.....lb. .42 - .45½
Anethol, com'l, dms., works.....lb. .657 - .685
NF, dms.....lb. .60 - 1.40
Angelica root, dom., (atropurpurea) bls..lb. 1.10 - 1.15
imported, bls.....lb. 1.50 - 1.60
Angostura bark, bls.....lb. .55 - .60
Aniline oil, dms., c.l., works, frt. alld..lb. .14 - —
l.c.l., works, frt. alld.....lb. .15 - —
tanks works, frt. alld.....lb. .13 - —
Salt, dms., works.....lb. .22 - .24
Anise, Argentine, bgs.....lb. .29 - .30
Chinese, Star.....lb. .13½ - .14
Cyprus, bgs.....lb. .25½ - .26
Mexican, bgs.....lb. .25 - .26
Syrian, bgs.....lb. .26 - .26½
Anisic aldehyde, bots., cns.....lb. 2.80 - 2.95
dms.....lb. 2.42 - 2.75
Annatto paste, bxs.....lb. .34 - .37
Seed, bgs.....lb. .19 - .20
Anthracene, 80-85%, bbls., works....lb. .60 - .86
90%, bbls., works.....lb. .81 - 1.00
Anthraquinone, 99.5%, bbls.....lb. .70 - —
Antimony butter (see Antimony chloride)
Chloride, solut., cbys.....lb. .17 - —
Metal, bulk, c.l., mines.....lb. .33 - .33½
Needle, cs.....lb. No stocks
Oxide, ceramic grade, bgs., c.l., works..lb. .26 - .27½
l.c.l., works.....lb. .28½ - .28½
paint grade, bgs., c.l., works....lb. .27½ - .31
l.c.l., works.....lb. .28½ - .32¾
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks
Sulphide, 65-70%, bbls., c.l., works. lb. .22 - —
l.c.l., works.....lb. .24 - —
Antipyrine, bbls.....lb. 2.15 - 2.25
Apomorphine, bots.....oz.23.20 -23.70
Archil extract, bbls.....lb. No stocks
Areca nuts, powd., bbls.....lb. .24 - .29
Arecoline hydrobromide, bots.....oz. 6.10 - 7.10
Antimony-potassium tartrate (see Tartar emetic).
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity)....25.00 - —
Arnica flowers, bls.....lb. 1.50 - 1.75
Arrowroot, powd., bgs., bbls.....lb. .14 - .15
Arsenic chloride (arsenous), bots..lb. 1.55 - —
Metal, lump, bbls., c.l.....lb. No stocks
Sulphide, yellow, bbls.....lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l.....lb. .06 - —
l.c.l.....lb. .07 - .08
Asafetida, cs.....lb. .55 - .60
powd., bbls., dms.....lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines..ton.65.00 - —
5R, bgs., c.l. (20 tons), same basis. ton.58.00 - —
6D, bgs., c.l. (30 tons), same basis. ton.43.00 - —
7D, bgs., c.l. (30 tons), same basis. ton.38.50 - —
7F, bgs., c.l. (30 tons), same basis. ton.36.50 - —
7K, bgs., c.l. (30 tons), same basis. ton.26.00 - —
7M, bgs., c.l. (30 tons), same basis. ton.22.50 - —
7R, bgs., c.l. (30 tons), same basis. ton.21.50 - —
7RF, bgs., c.l., same basis....ton.26.50 - —
7T, bgs., c.l., same basis.....ton.29.50 - —
7TF, bgs., c.l., same basis....ton.26.50 - —
Asphaltum California, dms., c.l..ton.36.40 - —
l.c.l.....ton.41.40 - —
Cuban, A, bulk, c.l.....ton.60.00 - —
l.c.l.....ton.90.00 - —
B, bulk, c.l.....ton.38.50 - —
l.c.l.....ton.55.00 - —
Gilsonite, brilliant black, selects 270°-295° F fus. pt., bgs., f.o.b. Colo. mines..ton.34.50 - —
Seconds, 300°-390° F fusing point, not uniform, bgs., mines..ton.29.00 - —
Jet, bgs., ton lots, gross weight; Colo. mines..ton.29.00 - —
Manjak, No. 10, crude, dms., works. lb. .06½ - —
process form, bgs., works.....lb. .05¾ - .12
Mexican, refd., dms., f.o.b. Tampico, metric ton.27.50 - —
South American, refd., dms., c.l., N. J. refy..ton.22.00 -23.00
l.c.l., same basis.....ton.24.00 -25.00
tanks, same basis.....ton.15.00 - —
Atropine, bots.....oz.10.80 -12.60
Sulphate, bots.....oz. 8.90 - 9.85

B

Balm of Gilead buds, bgs.....lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs.....lb. .78 - .80

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- Saccharin, U.S.P.
- Glycerophosphates
- Sodium Benzoate, U.S.P.
- Sodium Phosphate, Di
- Methyl Salicylate, U.S.P.
- Ferric Phosphates
- Chloral Hydrate, U.S.P.
- Caffeine, U.S.P.
- Phenol, U.S.P.
- Benzoic Acid, U.S.P.
- Magnesium Phosphates
- Salicylic Acid, U.S.P.
- Phenolphthalein, U.S.P.
- Chloramine-T, U.S.P.
- Phosphoric Acid
- Calcium Phosphate, [illegible]
- Acetyl Salicylic Acid (Aspirin)
- Acetophenetidin, U.S.P.
- Potassium Ammonium Phosphate
- Sodium Salicylate, U.S.P.
- Sulfanilamide, U.S.P.
- Acetanilid, U.S.P.
- Salol (Phenyl Salicylate)

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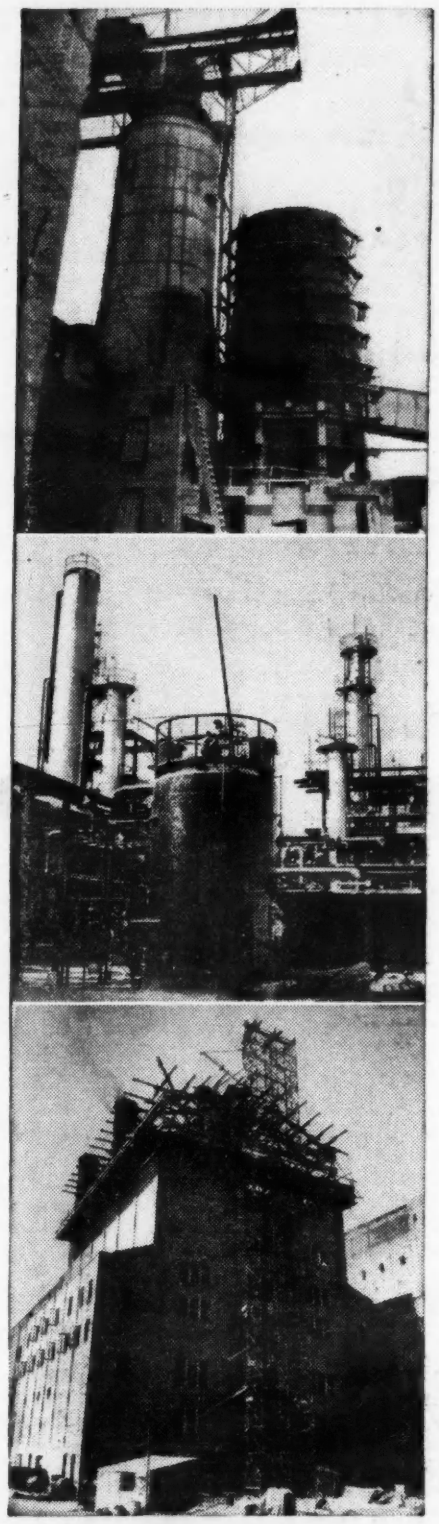
Barbital, dms. ..... lb. 4.50 - —
Sodium, dms. ..... lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works..ton.67.50 -75.00
small lots, works..ton.74.50 -82.00
Chlorate, kgs., works..lb. .25½- .31
Chloride, CP, cryst., bbls..lb. .25 - .27
pure, bbls., kgs..lb. .10 - .12
tech, bgs., c.l., works..ton.85.00 - —
l.c.l., works ..ton.95.00 - —
Dioxide, dms., c.l., works..lb. .11½- —
l.c.l., works ..lb. .13 - —
Fluoride, bbls. ..lb. .14 - —
Hydrate, crystals, bgs..lb. .08 - .08½
Hydroxide, bbls., works..lb. .19 - —
Iodide, bots. ..lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works..lb. .11½- —
l.c.l., works ..lb. .13 - —
Oxide, grd., dms., works..lb. .12 - .13
lump, dms., c.l., works..lb. .09 - —
l.c.l., works ..lb. .10 - .11
Peroxide (see Dioxide).
Silicofluoride, bbls. ..lb. .17 - .19
Stearate, ctns., 1 ton up..lb. .44 - .45
smaller lots ..lb. .46 - —
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. ..lb. .10 - .10½
kgs. ..lb. .12½- —
Sulphide, dms., works..ton.45.00 -64.00
Baryte ore, approx. 94% $BaSO_4$, bulk, mines..ton. 8.50 -12.50

Barytes, water-grd., paper bgs., c.l., St. Louis..ton.30.30 - —
l.c.l., same basis..ton.32.10 - —
ex whse., N. Y..ton.45.00 - —
Southern off-color, bgs., mines..ton.19.00 - —
95.75%, bgs., mines..ton.20.00 - —
Bay leaves (see Laurel leaves).
Barberry bark, bgs..lb. .12 - .13
Belladonna leaf, bls..lb. 1.45 - —
Root, bls. ..lb. 1.25 Nom.
Bauxite, bulk, mines..ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works..ton.11.00 - —
Benzaldehyde, NF, dms..lb. .68 - .80
tech., cbys., dms..lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11-13% gamma bgs., dms., c.l., works..lb. .42 - .44
l.c.l., works..lb. .43 - .48
dust, dry, 50%, dms., c.l., works. lb. .33 - —
l.c.l., works. ..lb. .34 - .35
wet, 50%, dms., c.l., works..lb. .34 - —
l.c.l., works..lb. .35 - .36
Benzidin base, bbls..lb. .77 - —
Benzocaine, cns. ..lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works..gal. .24 - —
tanks, E. of Omaha, frt. alld. up to 2c..gal. .19 - —
W. Coast, Minnequa, Colo., same basis..gal. .19 - —
Benzophenone, dms. ..lb. 1.15 - 1.60
Benzoyl chloride, cbys..lb. .20 - .28
Peroxide, pure, fib. ctns., works..lb. .90 - 1.00
No. 4, bgs., c.l., works..lb. .18 - —
l.c.l., works..lb. .22 - —

Benzoyl peroxide, No. 5, bgs., c.l., works..lb. .30 - —
l.c.l., works..lb. .40 - —
No. 10, bgs., c.l., works..lb. .07 - —
l.c.l., works..lb. .08 - —
Benzyl acetate, f.f.c., dms..lb. .60 - 1.00
dms. ..lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms..lb. 1.00 - 1.40
Chloride, refined, cbys..lb. .22 - —
tech., cbys., works, frt. equald..lb. .20½- —
Cinnamate, cns. ..lb. 3.55 - 4.00
Formate, cns. ..lb. 1.70 - 2.50
Propionate, bots. ..lb. 1.65 - 2.00
Salicylate, bots. ..lb. 1.75 - 2.10
Benzylidinacetone, bots..lb. 1.85 - 2.70
Benzylisoeugenol, bots. ..lb. 9.50 - —
Berberine bisulphate, cns..lb. No stocks
Hydrochloride, bots. ..lb. No stocks
Sulphate, cns. ..lb. No stocks
Berberis root, bls..lb. .30 - .35
Betagammapicolin, dms., c.l., works. lb. .14½- —
l.c.l., works ..lb. .25 - —
Betanaphthol, resublimed, dms., works. lb. .72 - .75
tech., bbls., c.l., works..lb. .23 - .26
l.c.l., works ..lb. .26 - .29
Benzoate, fib. dms., works..lb. 1.75 - —
Salicylate, dms. ..lb. 5.00 - —
Betanaphthylamine, tech., bbls., works. lb. .62 - —
Betapicolin, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works ..lb. 1.85 - —
95%, dms., works..lb. 2.05 - —
98-99%, dms., works..lb. 2.20 - —
Beth root, bls..lb. .55 - .60

Bismuth chloride, jars..lb. 4.50 - —
Citrate, USP VIII, jars..lb. 3.12 - —
Hydroxide, dms. ..lb. 4.00 - —
Metal, bxs., ton lots..lb. 2.60 - —
Nitrate, cryst., cns..lb. 1.60 - —
Oxychloride, cns., dms..lb. 3.80 - —
Oxide, anhydrous, dms..lb. 4.20 - —
Subcarbonate, USP, dms..lb. 2.60 - 2.63
Subgallate, NF, fib. dms..lb. 2.45 - 2.48
Subiodide, fib. dms..lb. 4.13 - —
Subnitrate, USP, dms..lb. 2.15 - 2.18
Subsalicylate, USP, dms..lb. 3.05 - —
Sulphocarbolate, fib. dms..lb. 4.05 - —
Bismuth-ammonium citrate, USP, powd., dms..lb. 3.70 - —
Black, acetylene, bgs., c.l., works..lb. .12½- —
cs., l.c.l., ship. pt..lb. .16 - .18
Bone, 1A, bgs., bbls., c.l., frt. alld. dest..lb. .21 - —
1, bgs., bbls., c.l., same basis..lb. .19 - —
2, bgs., bbls., c.l., same basis..lb. .17½- —
3, bgs., bbls., c.l., same basis..lb. .14½- —
4, bgs., bbls., c.l., same basis..lb. .13½- —
5, bgs., bbls., c.l., same basis..lb. .13 - —
6, bgs., bbls., c.l., same basis..lb. .13 - —
7, bgs., bbls., c.l., same basis..lb. .16 - —
8, bgs., bbls., c.l., same basis..lb. .17 - —
457, bgs., bbls., c.l., same basis..lb. .16 - —
Bone black, l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.
Carbon, channel, beads, bulk, c.l., works..lb. .06 - —
bgs., c.l., works..lb. .0632- —
l.c.l., works..lb. .07 - —
dlvd. or whse..lb. .1025- —
uncompressed, regular, bgs., c.l., works..lb. .074 - —
bgs., ctns., l.c.l., dlvd. or whse lb. .11½- —
furnace, HMF, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse..lb. .09 - —
SRF, bgs., c.l., works..lb. .035 - —
ctns., l.c.l., whse..lb. .075 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works..lb. .09¾- —
l.c.l., works..lb. .10 - —
Lamp, A-8, bgs., c.l., works..lb. .14 - —
l.c.l., works..lb. .15 - —
AA, bgs., c.l., works..lb. .25 - —
l.c.l., works..lb. .26 - —
B-5, bgs., c.l., works..lb. .09 - —
l.c.l., works..lb. .10 - —
BTA, No. 2, bgs., c.l., works..lb. .12 - —
l.c.l., works..lb. .13 - —
S-100, bgs., c.l., works..lb. .12 - —
l.c.l., works..lb. .13 - —
No. 1, bgs., c.l., works..lb. .12 - —
l.c.l., works..lb. .13 - —
No. 3, bgs., c.l., works..lb. .15 - —
l.c.l., works..lb. .16½- —
Mineral, bgs., l.c.l. ..ton.26.00 -31.00
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root bark, bls..lb. .75 - .76
Tree bark, bls..lb. .35 - .43
Black Indian hemp root, bls..lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works..ton.67.50 -72.50
l.c.l., works..ton.72.50 -80.00
direct process, bgs., c.l., works... ton.77.50 - —
l.c.l., works..ton.82.50 - —
N. Y. whse..ton.94.25 - —
bbls., c.l., works..ton.82.50 - —
l.c.l., works..ton.87.50 - —
N. Y. whse..ton.100.00 - —
pulp, 66⅔%, bbls., c.l., works..ton.55.00 - —
l.c.l., same basis..ton.60.00 - —
Bleaching powder, dms., c.l., works.... 100 lbs. 2.75 - 3.00
l.c.l., works..100 lbs. 3.75 - —
bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., works..100 lbs. 3.75 - —
Blood, dried, 16-16½% ammo., bgs..... unit-ton. 7.50 - 8.00
high-grade, unground, 16-17% ammon., bulk, Chicago..unit-ton. 8.40 - —
soluble, bgs., l.c.l..lb. .17.25 - —
Bloodroot, bls..lb. .60 - .65
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
Toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis..lb. .15 - .16
Chinese, bbls., same basis..lb. .42 - —
Cobalt, genuine, bbls., same basis..lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanin, full strength, bbls., same basis..lb. 3.75 - 3.85
80%, bbls., same basis..lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls., same basis. lb. 4.20 - —
Milori, bbls., same basis..lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .60 - .70
Permanent toner, green shade, molybdic, bbls., same basis..lb. 3.75 - —
Tungstic ..lb. 4.00 - —
Potash, CP, bbls., same basis..lb. .48 - —
Prussian bbls., same basis..lb. .42 - —
soluble, bbls., same basis..lb. .42 - —
Soda, CP, bronze, bbls., same basis. lb. .20 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis..lb. .24 - .28
jobbing type, dry, bbls., same basis..lb. .13 - .14
regular types, dry or pulp, bbls., same basis..lb. .18 - .19
Victoria, toner, molybdic, bbls....lb. 3.75 - —
Tungstic, bbls..lb. 3.75 - —
Ink toner, bbls., same basis....lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
Tungstic, kgs., same basis..lb. 2.50 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c., Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls..lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls..lb. .11 - .12
Bone, raw, bulk, Chicago..ton.75.00 - —
junk, bulk, same basis..ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works..ton.65.00 - —
Chicago, works..ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.65.00 - —
Chicago, works..ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works..ton.60.00 - —
Chicago, works..ton.60.00 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium Phosphate tribasic precip).
Boneset leaves, bls..lb. .17 - .18
Borage flowers, bls..lb. .55 - .56



RUSH!

Yes, Wyandotte is rushing its $25,000,000 expansion program to provide more of the chemicals you need

DON'T let these pictures fool you! They were taken early last July—and we've been moving fast since then.

We're going FULL SPEED AHEAD on our huge expansion program to produce more alkalies, more chlorine, synthetic detergents and glycol products.

It's a big job—but it's moving right along. The tremendous demand for some Wyandotte Chemicals still exceeds our production. But the day is coming when we'll have enough of everything for everybody. Meanwhile, we're allocating the available supplies as fairly as we know how.

Why not let us know your needs? We'll do our best to fill them.

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES
Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine • Hydrogen • Dry Ice • Glycols
Ethylene Dichloride • Propylene Dichloride • Chloroethers • Aromatic Sulfonic Acid Derivatives • Other Organic and Inorganic Chemicals

Wyandotte REG. U. S. PAT. OFF.

Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. alld..ton.73.50 -76.00
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis..ton.96.00 - —
bbls., c.l., works, frt. alld..ton.98.50 - —
ton lots, ex whse., N. Y. or Chi..ton.111.00 - —
less ton lots, same basis..ton.116.04 - —
fine gran., bulk, works.....ton.44 50 -47.50
paper bgs., c.l., works, frt. alld. ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.66.00 - —
less ton lots, same basis..ton.71.00 - —
bbls., c.l., works, frt. alld..ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis..ton.91.00 - —
powdered, paper bgs., c.l., works, frt. alld..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis..ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis..ton.96.00 - —
Borax packed in kgs. is $40 per ton higher than borax packed in paper bags. USP, $15 per ton higher.

Bordeaux mixture, bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis.....lb. .23 - —
single pkgs., same basis.....lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
chys. .....lb. 1.42 - —
Bromatyrol, bots.....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works..lb. .50 - .60
moulding, cans, dms., works..lb. .80 - 1.00
printing ink, cans, dms., works.lb. .95 - 1.10
radiator, cans, dms., works....lb. .60 - .65
Broomtop, bls.....lb. .29 - .30
Brown, iron, synth., bgs., l.c.l., works, lb. .12 - .12½
Oxide metallic, bgs., c.l., works.lb. .02¾- .03
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, works, paper bgs., l.c.l..lb. .06¾- .10¾
Italian type, bgs., works.....lb. .10¾- .14
raw, American, bgs., l.c.l., works.. lb. .05¾- .10¾
Italian type, bbls., works.....lb. .11¾- .12¾
Umber, burnt, American, c.l., bbls., works..lb. .05 - —
l.c.l., bgs., works.....lb. .05¼- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y...lb. .05¼- —
l.c.l., works.....lb. .05½- —
raw, American, bgs., same basis.lb. .05¼- .05½
Turkey type, bgs., same basis..lb. .05½- .05¾
Vandyke, bbls., works.....lb. .10 - .11
Brucine, ens., 100 ozs.....oz. .40 - .50
Sulphate, ens., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. .97 - 1.00
Buckhorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Butane, indust. tanks, group 3..gal. .03¼- —
Burdock root, bls.....lb. .42 - —
Butyl acetate, normal, ferment. Ill., Ind., prod., dms., c.l., works, frt. alld. E. of Miss..lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis.....lb. .29 - —
tankwagons, same basis..lb. .29½- —
other production, dms., c.l., same basis..lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis.....lb. .29 - —
synthetic, dms., c.l., same basis. lb. .17½- —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .16½- —
Normal butyl acetate, W. of Miss., ½c. per lb. higher.
secondary, dms., c.l., dlvd. E. of Miss..lb. .1260- —
l.c.l., same basis.....gal. 1.19 - —
tanks, same basis.....lb. .1150- —
Alcohol (see Alcohol, butyl).
Aldehyde, dms., c.l., works.....lb. .20½- —
l.c.l., works .....lb. .21½- —
tanks, works .....lb. .19½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .40½- —
l.c.l., same basis.....lb. .41½- —
tanks, same basis.....lb. .39 - —
Laurate, dms., works.....lb. .42 - —
Methacrylate, M-4, dms., works..lb. .60 - —
ens., works.....lb. .63 - .67
P-4, ens., works.....lb. .65 - —
Myristate, dms., works.....lb. No prices
Oleate, ref., dms., l.c.l., works....lb. .25 - —
tech., dms., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd.....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .45 - —
Butyl-isobutyl methacrylate, P-5, 50/50, ens., works..lb. .60 - —
Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodide, ens.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd..lb. 1.75 - 1.80
patent shapes, cs., dlvd.....lb. 1.75 - 1.89
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, cryst., dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more.. lb. 4.00 - —
Citrated, dms., 100 lbs. or more....lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 - 5.92
Calabar beans, bgs., futures.....lb. .65 - .66
Calamus root, dom., bls.....lb. .35 - .40
bleached, imported, bls.....lb. .70 - .80
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works..gram. 4.40 - —
less than 1,000 s.u., works..gram. 4.80 - —
In edible oil, dms., 10,000 or more 1,000 to 10,000 s.u., works..unit. .11 - —
s.u., works..unit. .10 - —
less than 1,000 s.u., works..unit. .12 - —

Calcium acetate, bgs., dlvd.....100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld..lb. .09½- —
l.c.l., same basis.....lb. .10½- .11½
Bromide, N.F., jars.....lb. .70 - —
Carbide, dms., c.l., works.....ton.50.00 - —
delivered .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars.. lb. .28 - 30
flake, 77-80%, paper bgs., c.l., dlvd. ton.21.50 -38.00
l.c.l., dlvd.....ton.31.50 -48.00
liquor, works, basis 40%.....ton. 8.50 - —
solid, 73-75%, dms., c.l., dlvd..ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -34.15
Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.
Cyanide, dms., delivered E. of Rockies..lb. .25 - 40
Gluconate, AA, bbls.....lb. .65 - 72
ens. .....lb. .83 - .90
USP, bbls.....lb. .58 - .65
ens. .....lb. .76 - .83
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, NF, fib. dms....lb. 1.90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, cased (45 lbs.) same basis..cs.19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, dms.....lb. .40 - .50
Laurate, bbls.....lb. .43 - .44
Mandelate, USP, dms., works.....lb. 2.05 - 2.30
Naphthenate, 5% Ca, dms.....lb. .27 - —
Pantothenate, dex., jars.....kilo.75.00 - —
Phosphate, feeding grade, bgs., works. ton.75.00 - —
food grade, bbls., 10 or over, works. lb. .07 - .07¾
less than 10, works.....lb. .06 - .10

Calcium phosphate, medicinal, dibasic, bgs..100 lbs.11.40 -19.00
monobasic, cryst., bgs., c.l., works, frt., equald..lb. .05¾- —
l.c.l., same basis.....lb. .06 - .06½
tribasic, bbls., c.l., works.....lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0680
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, dms..lb. .20 - —
Silicate, hydrated, bgs., c.l., works. .05½- —
l.c.l., works .....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .40 - —
smaller lots, works.....lb. .41 - .42
Sulphate (see Gypsum)
Sulphide, 76%, bgs., c.l., works..ton.45.00 - —
70%, bgs., c.l., works.....ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms....lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, dms., works.....lb. 1.06 - 1.50
fine particle size, works.....lb. 1.50 - 1.75
Calendula flowers, bls. .....lb. 1.00 - 1.05
Calomel, USP, cryst., dms.....lb. 2.10 - 2.11
fine powd., dms. .....lb. 2.25 - 2.26
Camphor, monobromated, dms....lb. 3.20 - —
Camphor, natural .....lb. No stocks.
synth., tech., bbls., 2,000 lbs. or more, works..lb. .45 - —
10 bbls (1,500 lbs.).....lb. .47½- —
smaller lots .....lb. .48 - .58
USP, gran., powd., bbls., 2,000-lb. lots..lb. .72 - —
1,000-lb. lots .....lb. .73 - —
smaller lots .....lb. .74 - —
tablets, tins, 2,000-lb. lots..lb. .86 - —
1,000-lb. lots .....lb. .87 - —
smaller lots .....lb. .88 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs.....lb. 2.25 - 2.50
powd., bxs. .....lb. 2.50 - 2.75
Russian, bgs. .....lb. 7.00 - 7.25
powd., bxs. .....lb. 7.25 - 7.50

Capsicum (see Pepper, red).
Oleoresin, NF VIII, ens.....lb. 4.50 - 4.65
Caramel coloring, bbls. .....gal. 1.25 - —
Caraway seed, Danish, bgs.....lb. .16 - .16½
Dutch, bgs. .....lb. .16¼- .16¾
futures, new crop, bgs.....lb. .16 - .16½
Carbazole, 97%, dms., ton lots, works. lb. 1.10 - 1.30
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm., dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works..lb. .70 - —
Isobutyl, dms., c.l., works.....lb. .51 - —
l.c.l., works .....lb. .52 - —
tanks, works .....lb. .50 - —
Methylisobutyl, dms., c.l., nearest delivery point, buyer's works..lb. .14½- —
l.c.l., same basis .....lb. .15 - —
tanks, same basis.....lb. .12 - —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points..lb. .03½- —
l.c.l., same basis.....lb. .06½- —
5-gal. dms., c.l., same basis..lb. .07½- —
l.c.l., same basis.....lb. .08½- —
Dioxide, cyls. .....lb. .06 - .08
Tetrachloride, CP dms., c.l.....lb. .09 - —
l.c.l. .....lb. .09½- —
tech., dms., zone 1, c.l., frt. alld.lb. .06½- .07
l.c.l. .....lb. .07 - .07½
zone 2, c.l., frt. alld.....lb. .07 - .07½
l.c.l. .....lb. .08 - .08½
zone 3, c.l., frt. alld.....lb. .07½- .08
l.c.l., frt. alld.....lb. .09 - .09½
zone 4, c.l.....lb. .07 - .07½
l.c.l. .....lb. .07½- .08

ASPIRIN USP

RESORCIN USP Recrystallized

CAUSTIC SODA

SODIUM SULPHATE Anhydrous

GLUCOSE 45° Bé

SODIUM SULPHIDE Flakes

FORMIC ACID 90%

BLEACHING POWDER 70%

NICKEL ANODES

CAUSTIC POTASH Solid

TRICHLORETHYLENE

POTASSIUM PERMANGANATE USP

DIRECT BLACK

PHOSPHORIC ACID 85%

SULPHUR BLACK

POTASSIUM CHLORATE

GLYCERINE CP, USP

MAGNESIUM OXIDE Heavy

SODIUM BICHROMATE

LITHOPONE 30%

OTHER SPECIAL PRODUCTS

Distributors for
THE RUFERT CHEMICAL COMPANY

NICKEL FORMATE
also NICKEL CATALYST
NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION

420 LEXINGTON AVENUE
NEW YORK 17, N. Y. Phone: LE 2-9740

Carbon Tetrachloride—Copaiba Balsam

Carbon tetrachloride, USP, cbys....lb. .17 - .19

Carbon tetrachloride prices in zone 4 are f.o.b. cars L.A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

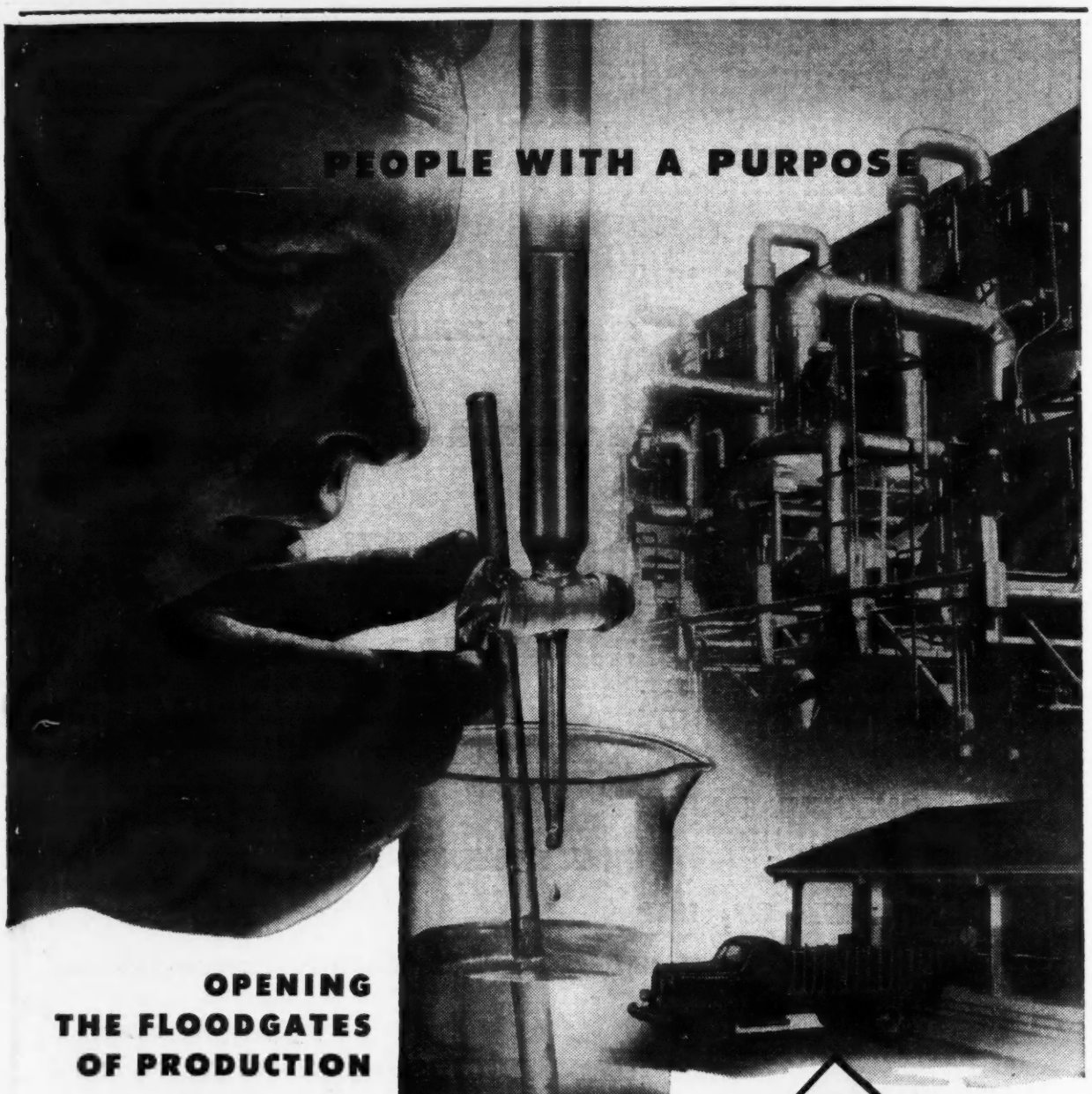
Cardamom fruit, bleached, bold, cs..lb. 1.60 - 1.65
medium, cs.....lb. 1.50 - 1.55
decorticated, Guatemalan, cs...lb. 1.10 - 1.15
Indian, cs.....lb. 1.10 - 1.15
green, Alleppey, bgs.....lb. 1.05 - 1.10
Seed (see Cardamom fruit, decorticated).

Carotene, cryst., research grade tins, works..gram. 5.00 - —
in vegetable oil (alpha, 10%, beta, 90%), amps., 100 grams, dlvd gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
tech., tins, works.....lb. .67½- —
diluted, dry powd., 3,330 A units per gm., bots., works..lb. .70 - —
vegetable oil, 250,000 A units per gm., bots., works..lb.37.80 - —
50,000 A units, per gm., bots., works..lb. 7.87 - —
3,330 A units, per gm., bots., works..lb. .85 - —

Carvol, bots.....lb.13.00 -16.00

Cascara sagrada bark, bulk.....lb. .40 - .43
Case-hardening mixture, 30% gran., dms., l.c.l...lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship. point..lb. .32 - .34
rennet-precip., 10,000 lbs. or more, same basis..lb. .34 Nom.
Imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .33½- .35½
rennet-precip., unground, 100 bgs., or more..lb. .36 Nom.
smaller lots.....lb. .37 Nom.
Cassia bark, Batavia, No. 1, short-stick, bls..lb. .60 Nom.
broken, bls.....lb. .21 - .22
thinquill, bls.....lb. .60 Nom.
China, rolls, select, cs.....lb. .11 - .11½
broken, bls.....lb. .08 - .08½
Kwangsi, broken, bls.....lb. .16 - .16½
Saigon, broken, bls.....lb. .26 - .27
medium, bls.....lb. .33 - .33½
4-10-4, bls.....lb. .33 - .34
Yunnan, bls.....lb. .12½- .13
Buds, China, bgs.....lb. .21 - .21½
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, bgs., Brazilian ports, long ton.215.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works.....ton.37.50 -40.00
Castoreum, nat., cns.....lb.39.00 - —
Catechol, CP, cryst., works, fib, dms..lb. 2.00 - —
resublimed, works, dms.....lb. 3.25 - —
Catnep, bls.....lb. .70 - —
Celery seed, French, bgs.....lb. .30 - .31
Indian, bgs.....lb. .22 - .22½
futures, bgs.....lb. .22 - .22½
Celluloid scrap (see Pyroxylin scrap).

Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.....lb. .42 - —
molding, plain colors, pearls, special black, dms., frt. alld., c.l...lb. .47 - —
dms., l.c.l., same basis.....lb. .49 - .54
regular black, dms., l.c.l., same basis..lb. .35 - .39
variegations, dms., l.c.l., same basis..lb. .54 - .59
Acetate-butyrate, flake, low butyryl content, 15.5-17%, ctns., 5,000 lbs. frt. alld..lb. .49 - —
1,000 lbs., frt. alld.....lb. .50 - —
100 lbs., frt. alld.....lb. .51 - —
smaller lots, works.....lb. .52 - —
medium butyryl content, 36.5%, ctns., 5,000 lbs. frt. alld..lb. .51 - —
1,000 lbs., frt. alld.....lb. .52 - —
100 lbs., frt. alld.....lb. .53 - —
smaller lots, works.....lb. .54 - —
molding, plain colors, pearls, special black, dms., frt. alld., l.c.l..lb. .56 - .61
regular black, dms., l.c.l...lb. .47 - .51
variegation, dms., l.c.l.....lb. .61 - .66
powd., high butyryl content, 47-50%, ctns., 5,000 lbs., frt. alld. lb. .57 - —
1,000 lbs., frt. alld.....lb. .58 - —
100 lbs., frt. alld.....lb. .59 - —
smaller lots, works.....lb. .60 - —
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works.....lb. 1.00 - —
Oxalate, NF, bbls., kgs., works..lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works.....lb. 1.75 - —



OPENING THE FLOODGATES OF PRODUCTION

We hold the belief that *all* the knowledge to be gained through careful research is essential to the production of a superior product. So each new Oronite product starts with a trickle. Drops to be analyzed, experimented with, in order that increased facilities and complete know-how may bring quantity production.

In the industrial chemical field, you can look with confidence to Oronite for more and improved products to serve the needs of industry.

ORONITE CHEMICALS
REG. U. S. PAT. OFF.

ORONITE CHEMICAL COMPANY
200 Bush St., San Francisco 4, Calif • 30 Rockefeller Plaza, New York 20, N.Y.
Standard Oil Building, Los Angeles 15, California

Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb. .02⅞- .05¼
l.c.l., ex whse.....lb. .04 - —
paint, bgs., c.l., works.....ton.40.00 - —
papermakers, bgs., c.l., works..ton.32.50 -40.00
rubbermakers, bgs., c.l., works, ton.30.00 - —
Chamomile, Hungarian type, cs....lb. .65 - .70
Roman, bls., futures.....lb. 1.45 - 1.50
Charcoal, hardwood, briquets, bulk, c.l., works..ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., works, ton.50.50 - —
lump, bulk, c.l., works.....ton.39.50 -43.50
bgs., extra, returnable, c.l., works..ton.42.50 -45.50
screenings, bgs., works.....ton.33.50 - —
Pinewood, gran., powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
lump, bgs., c.l., works, South..ton.35.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, powd., 65% tannin, bgs., extra, c.l., works..lb. .1040- —
l.c.l., works.....lb. .1115- —
solid, 25% tannin, bbls., c.l., works, lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works..ton.10.00 -13.00
l.c.l., works.....ton.14.00 -16.00
bulk, c.l., works.....ton. 9.00 - —
99% 200 mesh, bgs., c.l., works..ton.10.00 -12.00
l.c.l., works.....ton.11.00 -16.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works....ton.11.50 - —
paper bgs., c.l., works..ton.15.00 - —
Imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.31.25 - —
powd., bgs., l.c.l., ex whse..ton.60.00 -100.00
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Synthetic rubber, same basis, all quantities..lb. .52 - —
Chlordane, agricultural, dms., c.l., frt. alld..lb. 1.75 - —
l.c.l., frt alld.....lb. 1.90 - 2.00
refined, dms., c.l., frt. alld.....lb. 2.00 - —
l.c.l., frt. alld.....lb. 2.15 - 2.25
technical, cns., c.l., works.....lb. 1.75 - —
l.c.l., works.....lb. 1.80 - 2.00
Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb. .40 - —
smaller lots, works.....lb. .43 - —
Chlorine, liquid, cyls., c.l., dlvd....lb. .06¾- —
l.c.l., dlvd.....lb. .09 - .10½
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.30 - —
2 cars, same basis....100 lbs. 2.90 - —
1 car, same basis.....100 lbs. 3.50 - —
Chloroform, tech., dms.....lb .20 - .23
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, bots., ex whse..lb. 1.25 - —
cyls., 180-lbs., works, frt. alld..lb. .80 - —
100-lbs., same basis.....lb. .82 - —
25-lbs., ex whse.....lb. 1.00 - —
Choline chloride, fib dms., works..lb. 3.00 - 3.10
feed grade, fib, dms., works..lb. 2.00 - —
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks.
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Cake, bulk, c.l., works.....ton.16.00 - —
Fluoride, bbls., works.....lb. .24 - .27
Green (see Green, chrome).
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 6.60
Cinchona bark, USP, red, quill, 30-in., cs..lb. 1.26 Nom.
Cinchonidine, small cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, large cryst., cns., 100 ozs. oz. .79½- —
small cryst., cns., 100 ozs.....oz. .75½- —
Sulphate, NF, cns., 100 ozs.....oz. .36½- —
Cinchophen, NF, heavy, dms., works, lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, chys., cns., dms.....lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls.....lb. .42 - .44
Citral, bots., cns.....lb. 5.15 - 7.70
Citronellal, bots., dms.....lb. 2.75 -10.40
Citronellol, bots., dms.....lb. 3.85 - 4.75
Cloves, Madagascar, bls.....lb. .12 - .12¼
futures, bls.....lb. .11½- .12
Zanzibar, bls.....lb. .16½- .17
Clover tops, red, dom., bgs.....lb. .65 - .70
Imported, bgs.....lb. No stocks.
Coaltar, coal-gas, crude, dms., c.l., works..dm. 9.50 - —
l.c.l., works.....dm.10.00 - —
tanks, works.....gal. .09 - —
refd., bbls., c.l., works.....bbl.10.00 - —
l.c.l., works.....bbl.10.50 - —
tanks, works.....gal. .10 - —
water-gas, crude, dms., c.l., works. gal. .21 - —
l.c.l., works.....gal. .22 - —
tanks, works.....gal. .11 - —
refd., dms., c.l., works.....gal. .22 - —
l.c.l., works.....gal. .23 - —
Cobalt acetate, bbls., kgs., dlvd..lb. .83¾- —
Carbonate, powd., bgs., works....lb. 1.58 - —
feed, grade, 49½% Co, kgs.....lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.....lb. 1.25 - —
Hydrate, bbls......lb. 2.04 - —
feed grade, 62% Co, kgs.....lb. 2.04 - —
Linoleate, paste, 6% Co, dms...lb. .58½- —
solid 8½% Co, dms.....lb. .69¾- —
solid 8% Co, dms.....lb. .62¾- —
Naphthenate, solid, 6% Co, dms..lb. .35½- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .75¾- —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.27½- 1.30
Phosphate, feed grade, 34% Co, kgs. lb. 1.26½- —
Resinate, precip., 7.5% Co, dms...lb. .38½- —
Soyate 8.5% solid Co, dms.....lb. .50½- —
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs.....lb. 1.00 - —
Cobalt salts, feed grade quotations are f.o.b. Phila., Cleve. or N. Y.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, cns., 100-oz. lots..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70
Cocoa butter, bgs.....lb. .69 - .70
Coeillana bark, bgs.....lb. .45 - .46
Codeine, cns., 100 ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs....oz.10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh black, root, bls.....lb. .22 - .23
Blue, bls.....lb. .22 - .23
Colchicum seed, bgs.....lb. 4.00 - 4.25
Colchimine, bots., cns.....oz. No stocks
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30½
Colocynth pulp, bls.....lb. .50 - .52
Colombo root, bls.....lb. .16 - .17
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., futures....lb. .25 - .26
Copaiba balsam, Para, cns.....lb. No stocks
F. A., USP, cns.....lb. .85 - .90

Copper acetate, cupric, bbls., works	lb.	.28	- —
smaller containers, works	lb.	.29	- .30
Carbonate, 52-54%, bbls.	lb.	.24	- .26
Chloride, anhyd., bbls.	lb.	.29½	- —
crystals, bbls.	lb.	.17½	- —
Cyanide, tech., bbls.		.40½	- —
Hydrate, dms., del. E. Miss.	lb.	.28¼	- .28¾
Metal, electrolytic	lb.	.21½	- —
Naphthenate, liquid, 8% Cu, dms., dlvd.	lb.	.21	- —
solid, 11% Cu, dms., dlvd.	lb.	.27½	- —
Nitrate, tech., cryst., bbls., works,	lb.	.25	- .28
Oleate, cu 10% solid precip, bbls.	lb.	.36¼	- —
Oxide, black, bbls., works	lb.	.28	- .30
red, com'l, bbls., works	lb.	.31	- .33
Oxychloride-sulphate, bgs.	lb.	.24	- —
Resinate, precip., 8.5% Cu, dms.	lb.	.21½	- —
Stearate, bgs., works		.35½	- —
Sulphate, cryst., 99%, bgs., c.l., works.	100 lbs.	7.00	- —
l.c.l.	100 lbs.	7.85	- 8.60
monohydrated, 35%, dms., c.l., dlvd.	100 lbs.	12.55	-12.80
l.c.l., dlvd.	100 lbs.	13.55	- —
tribasic, dealers, bgs., works, c.l.,	lb.	.21½	- .22½
l.c.l., works	lb.	.23	- .23½
Copperas, cryst., gran., bgs., c.l., works.	ton.	17.00	- —
l.c.l., works	100 lbs.	1.55	- 2.00
bbls., c.l., works	ton.	20.00	- —
bulk, c.l., works	ton.	14.50	- —
Copra, c.i.f., Pacific ports	ton.	165.00	- —
Atlantic or Gulf ports	ton.	171.00	- —
Coriander seed, Argentine, bgs, futures	lb.	.07	- .07½
Indian, bgs.	lb.	No stocks	
Italian, bgs.	lb.	.06¾	- .06⅞
Moroccan, bgs.	lb.	No stocks	
Peruvian, bgs., afloat	lb.	.09	- .09½
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min.	100 lbs.	6.91	- —
bbls., c.l., same basis	100 lbs.	6.95	- —
Syrup, 42°, bbls., c.l.	100 lbs.	7.52	- —
l.c.l.	100 lbs.	7.47	- —
Cornsilk, bls.	lb.	.32	- .35
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more	lb.	1.93	- —
gran., powd., dms., 50 lbs. or more	lb.	1.78	- —
Cottonroot bark, bls.	lb.	.40	- .45
Cottonseed hull ash, 32-36% potash, bgs., dlvd.	unit-ton.	No prices	
Meal, 41% protein sacked, c.l. mills, S.E.	ton.	80.00	Nom.
Coumarin, cns., 25 lbs.	lb.	2.75	- 3.25
smaller lots	lb.	2.50	- 3.50
Cramp bark, NF, bls.	lb.	.80	- .85
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't.	lb.	41½	- —
bbls., kgs., smaller lots	lb.	.42	- .42½
Creosote, beechwood, bots., cbys.	lb.	1.05	- 1.10
Coaltar (see Cresol).			
Hardwood, N. F., bots., cbys.	lb.	.80	- .85
Pinewood, dms.	gal.	.31	- .32
Carbonate, bots., cbys.	lb.	2.30	- 2.40
Oil, coaltar, crude, tanks, works	gal.	17½	- 19½
refined, dms., c.l., works	gal.	.30	- .36¼
l.c.l., same basis	gal.	.33	- .37
tanks, same basis	gal.	.22	- .25
solution, 80% tanks, works	gal.	.16	- .18
Cresol, tech, dms., c.l., works, frt. equald.	lb.	.14¾	- .15½
l.c.l., same basis	lb.	.15¾	- .15⅝
tanks, same basis	lb.	.14	- .14½
USP, dms., c.l., same basis	lb.	.14¾	- .15⅜
l.c.l., same basis	lb.	.15¼	- .15⅝
tanks, same basis	lb.	.14	- .14½
Crotonaldehyde, 91-93%, dms., 55 and 110 gals., l.c.l., works	lb.	.17	- —
5 and 10-gals., l.c.l., works	lb.	.20½	- —
Cryolite, nat., dealers, bgs., bbls., c.l., works.	100 lbs.	12½	- —
bbls., l.c.l., works	100 lbs.	14	- —
Cube root, 5% rotenone, bbls., works.	lb.	.55	- —
4% rotenone, bbls., works	lb.	.45	- —
Culch berries, XX, bgs.	lb.	.75	- .80
powd., cs.	lb.	1.00	- 1.05
Culvers root bls.	lb.	.45	- .50
Cumin seed, Cyprian, bgs.	lb.	No stocks	
Indian, bgs., futures	lb.	.40	- .41
Moroccan, bgs.	lb.	No stocks	
Persian, bgs.	lb.	.26	- .26½
Syrian, bgs	lb.	.26	- .26½
Cutch, 65% tannin, bgs., ex dock	lb.	.12	- —
Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk.	unit ton.	2.00	- —
pulv., 21% N., bgs., same basis,	unit-ton.	1.90	- —
Cyclohexane, tech., dms., c.l., works.	lb.	.09½	- —
l.c.l., works	lb.	.10	- —
tanks, works	lb.	.08	- —
Cyclohexanol, tech., dms., c.l., works,	lb.	.21½	- .26
l.c.l., works	lb.	.22	- —
tanks, works	lb.	.20	- —
Cyclohexanone, tech., dms., c.l., works,	lb.	.28½	- .30
l.c.l., works	lb.	.27	- .31
tanks, works	lb.	.25	- .29
Cyclopropane, USP, cyls., dlvd.	gal.	.27	- —

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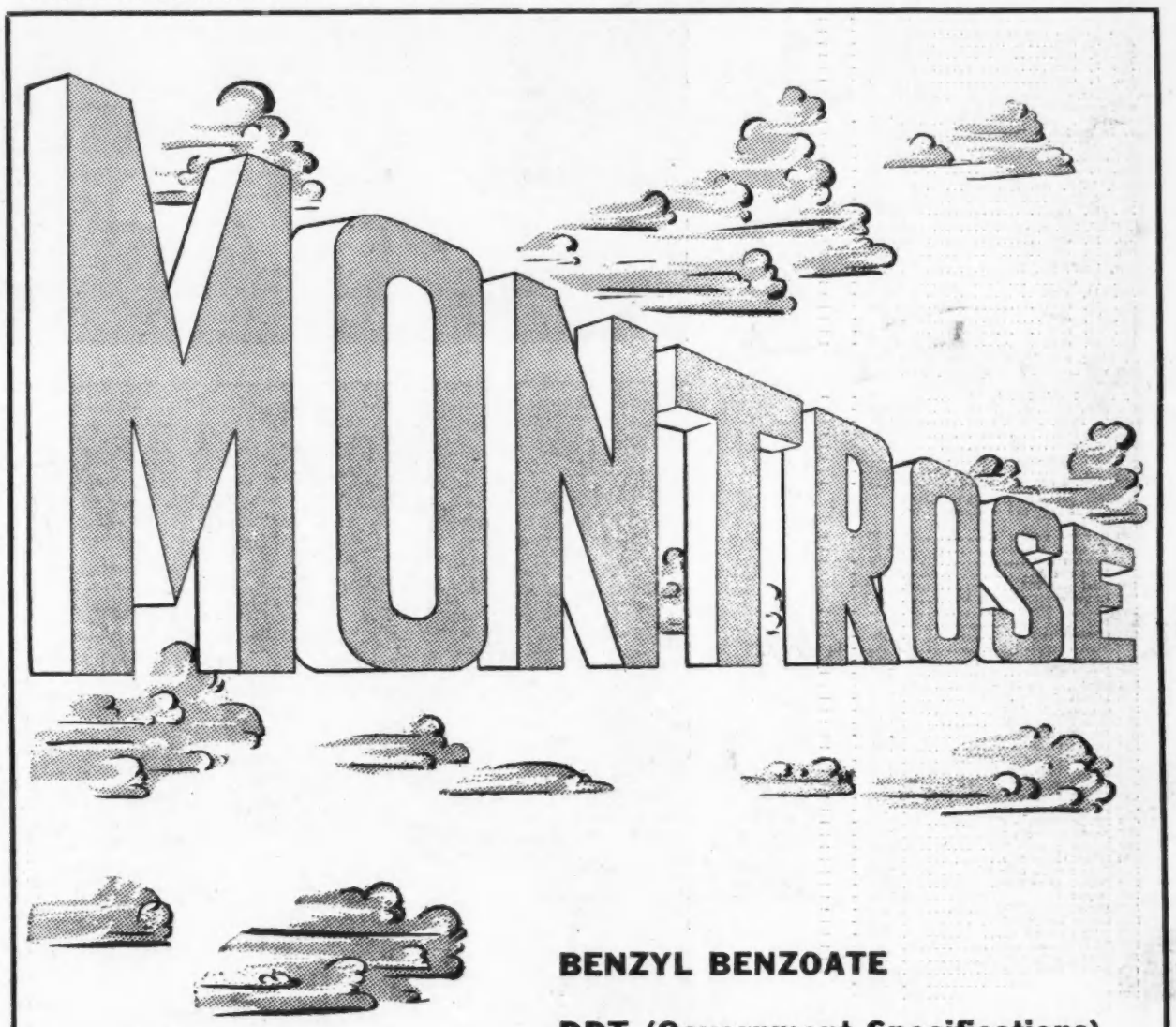
Damiana leaves, bls.	lb.	.35	- .40
Dandelion root, bls.	lb.	.67	- —
DDT, fiber, dms., c.l., works	lb.	.37½	- —
ton lots, works	lb.	.40	- —
tins, smaller lots, works	lb.	.45	- .47
Decanol, normal, tech., dms., dlvd.	lb.	.35	- —
Deertongue leaves, bls.	lb.	.35	- .40
Defluorinated phosphate, 65% b.p.l., paper bgs., Columbus, Ga.	ton.	39.25	- —
Texarkana, Ark.	ton.	41.00	- —
Tupelo, Miss.	ton.	39.25	- —
Wales, Tenn.	ton.	39.25	- —
Rock, paper bgs., works	ton.	34.25	- —
Degras, common, bbls.	lb.	.10	- .12
neutral, less 2% ffa., bbls.	lb.	.22	- .23
over 2% ffa., bbls.	lb.	.21	- .22
Derris root (see Cube root).			
Dextrin, British gum, bgs., c.l.	100 lbs.	8.90	- —
Chicago	100 lbs.	8.70	- —
l.c.l.	100 lbs.	9.10	- —
Corn, canary, bgs., c.l.	100 lbs.	8.69	- —
Chicago	100 lbs.	8.24	- —
l.c.l.	100 lbs.	8.84	- —
dark, bgs., c.l.	100 lbs.	8.79	- —
Chicago	100 lbs.	8.34	- —
l.c.l.	100 lbs.	8.94	- —
white, bgs., c.l.	100 lbs.	8.74	- —
Chicago	100 lbs.	8.69	- —
l.c.l.	100 lbs.	8.89	- —
Above prices are for dextrin in paper bgs.; cotton bgs., 1c. higher.			
Potato, dom., bgs.	lb.	.13	- .13¼
Diacetone (see Alcohol, diacetone).			
Diacetyl, flavor grade, bots.	lb.	5.50	- 6.00
laboratory grade, bots.	100 grams.	4.50	- —
tech., bots., works	lb.	3.00	- —
Diamyl ether (see Ether, amyl).			
Phthalate, dms., tanks	lb.	No prices	
Diamylamine, dms., c.l., works	lb.	1.47	- —
l.c.l., works	lb.	1.50	- —
Dianisidin, dms.	lb.	1.54	- —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast.	ton.	50.00	-62.00
California	ton.	38.00	-40.00
l.c.l., ex whse.	ton.	80.00	- —
purified, bgs., c.l., Atlantic coast	ton.	62.00	- —
California	ton.	50.00	- —
l.c.l., ex whse.	ton.	90.00	- —
l.c.l., ex whse.	ton.	90.00	- —
Algerian, bgs., c.l., Atlantic coast.	ton.	No prices	
Mexican, white, bgs., c.l., Atlantic coast	lb.	.03	- —
l.c.l. Atlantic coast	lb.	.06	- —
Dibutyl phthalate, dms., c.l.	lb.	.33½	- .36
l.c.l.	lb.	.34	- .36½
tanks	lb.	.32	- .34½
Sebacate, dms., c.l., works	lb.	.78½	- —
l.c.l., works	lb.	.79½	- —
tanks, works	lb.	.77¾	- —
Tartrate dms. wks., frt. alld.	lb.	.92	- 1.02
Dibutylamine, dms., c.l., works	lb.	.76	- —
l.c.l., works	lb.	.79	- —
Dichlorodiphenyldichloroethane, fib. dms., c.l. works	lb.	.42½	- —
ton lots, works	lb.	.45	- —
tins, small lots, works	lb.	.48	- .50
Dichlorodiphenyltrichloroethane (see DDT).			
Dichloroethyl ether (see Ether, dichloroethyl).			
Diethanolamine, dms., c.l., frt. alld. E.	lb.	.25	- —
l.c.l., same basis	lb.	.25	- —
smaller containers, same basis	lb.	.26	- —
tanks, same basis	lb.	.23½	- —
Diethyl carbonate, dms., l.c.l.	lb.	.40	- —
Oxalate, dms., c.l.	lb.	.35½	- —
l.c.l.	lb.	.36½	- —
tanks	lb.	.34	- —
Phthalate, dms., c.l., dlvd.	lb.	.31½	- .32¾
dms., l.c.l., dlvd.	lb.	.32	- .33½
tanks, dlvd.	lb.	.30	- .31½
Diethyl sulphate, dms., c.l., works.	lb.	.14	- —
l.c.l., works	lb.	.15	- —
tanks, works	lb.	.13	- —
Diethylamine, dms., c.l., works:	lb.	.69	- —
l.c.l., works	lb.	.71	- —
tanks, works	lb.	.65	- —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss.	lb.	.75	- —
Diethylaniline, dms.	lb.	.48	- —
Diethyleneglycol, dms., c.l., frt. alld. E.	lb.	.14	- —
l.c.l., same basis	lb.	.15	- —
tanks, same basis	lb.	.13	- —
Diethylether, dms., works	lb.	.40	- —
Monobutylether, dms., c.l., works,	lb.	.22	- —
l.c.l., works	lb.	.23	- —
tanks, works	lb.	.21	- —
Monobutylether acetate, dms., c.l., works.	lb.	.28½	- —
l.c.l., works	lb.	.27½	- —
tanks, works	lb.	.26½	- —
Monomethylether, dms., c.l., works,	lb.	.15½	- —
l.c.l., works	lb.	.16½	- —
tanks, works	lb.	.14½	- —
Monomethylether acetate, dms., c.l., works.	lb.	.25½	- —
l.c.l., works	lb.	.26½	- —
Monomethylether, dms., c.l., works,	lb.	.21½	- —
l.c.l.	lb.	.22½	- —
tanks	lb.	.20½	- —
Monomethylether acetate, dms., c.l., works.	lb.	.21½	- —
l.c.l., works	lb.	.22½	- —
Diethylenetriamine, tanks, works.	lb.	.50	- —
Diethylstilbestrol, bots.	kilo.	330.00	-350.00
Digitalin, cryst., bots.	gram.	18.00	-19.00
powd., bots.	gram.	1.25	- 1.75

Copper Acetate—Dinonylnaphthalene

Digitalis leaves, dms.	lb.	1.05	- 1.15
Diglycol laurate, dms.	lb.	.33	- —
Oleate, light, bbls., c.l.	lb.	.33	- —
Stearate, bbls., c.l.	lb.	.40	- —
Dihydroxydichlorodiphenylmethane, dms.	lb.	.95	- 1.00
smaller containers	lb.	1.05	- 1.40
Di-isobutyl ketone, dms., works.	lb.	.19	- —
Di-isobutylene, dms., c.l., works.	lb.	.07	- —
l.c.l., works	lb.	.07½	- —
tanks, works	lb.	.05½	- —
Dillseed, decorticated, bgs.	lb.	.16	Nom.
dewhiskered, bgs.	lb.	.13½	Nom.
Dimethyl phthalate, dms., c.l., dlvd.	lb.	.24¾	- —
l.c.l., dlvd.	lb.	.25½	- —
tanks, dlvd.	lb.	.23½	- —
Sebacate, dms., c.l., works	lb.	.91	- —
l.c.l., works	lb.	.91½	- —
tanks, works	lb.	.90	- —
Sulphate, ref. 95-gal. dms., c.l., works.	lb.	.15	- —
l.c.l., works	lb.	.16	- —
ref. 99-gal. dms., works	lb.	.16½	- —
Dimethylamine, anhyd., cyl., works, basis 100%.	lb.	.38½	- .48¼
25%-40%, dms., c.l., works, basis 100%.	lb.	.38	- —
l.c.l., works, basis 100%	lb.	.38½	- —
tanks, works, basis 100%	lb.	.33	- —
Dimethylanilin, dms., c.l.	lb.	.21	- .24¼
l.c.l.	lb.	.22	- —
Dinitrobenzene, bbls.	lb.	.16	- —
Dinitrochlorobenzene, dms.	lb.	.14	- .15½
Dinitronaphthalene, kgs.	lb.	.35	- .38
Dinitrophenol, bbls.	lb.	.22	- —
Dinitrotoluene, oily, dms.	lb.	.07	- .07¾
refd., dms.	lb.	.18	- —
Dinonylnaphthalene, tanks, works.	lb.	.15	- —



BENZYL BENZOATE

DDT (Government Specifications)

ERGOSTEROL (Non-Irradiated)

TRICRESYL PHOSPHATE

MONTROSE Chemical Company
LISTER AVENUE, NEWARK, NEW JERSEY

SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

Diorthotolylguanidin—Eserine Sulphate

Diorthotolylguanidin, dms., ton lots, dlvd..lb. .44 - —
smaller lots, dlvd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld.....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dest.-dist., dms. incl., c.l., works, South .gal. .54½- —
l.c.l., same basis.....gal. .55½- —
N. Y. whse.....gal. .65 - —
tanks, works, South.....gal. .44½- —
steam-dist., dms., whse., N.Y.C...gal. .70 - —
tanks, dlvd. E.....gal. 1.05 - —
Diphenyl, bbls., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns.....lb. .50 - .61
dms.....lb. .45 - .56
Diphenylamine, bbls.....lb. .25 - —
Diphenylguanidin, dms., ton lots..lb. .35 - —
smaller lots.....lb. .36 - .37
Divi-divi, 38% tannin, bgs., bls., c.l., U.S. ports, ex dock..ton 61.00 -62.00
Doggrass root, dom., cut, bls.....lb. .27 - .28
imp., N.F., cut, bls.....lb. .31 - .32
Dogwood, Jamaica, bark, bls .....lb. .12 - .14
Dragon's blood, drops, cs.....lb. .45 - .47
mass, cs.....lb. 1.50 - 1.55
reeds, cs..... No stocks

Dyes, coaltar, certified colors for foods, drugs and cosmetics, 5-lb. lots:—
Blue, FD&C, No. 1, cns .....lb.13.00 - —
Green, FD&C, No. 1, cns.....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns.....lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns.....lb. 8.00 - —
No. 3, cns.....lb. 2.35 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns.....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 3, cns.....lb. 8.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.85 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 8.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns.....lb. 8.35 - —
No. 8, cns.....lb. 8.35 - —
No. 11, cns.....lb.10.35 - —
No. 19, cns.....lb.15.35 - —
No. 22, cns.....lb. 8.35 - —
No. 33, cns.....lb.13.35 - —
No. 37, cns.....lb.12.35 - —

Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Blue, Ext. D&C, No. 1, cns.....lb.12.35 - —
Green, Ext. D&C, No. 1, cns.....lb.12.35 - —
Red, Ext. D&C, No. 1, cns.....lb.10.35 - —
No. 3, cns.....lb.21.85 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext. D&C, No. 1, cns.....lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
40 Chrome yellow R.....lb. .72 - —
53 Victoria violet.....lb. 1.25 - —
165 Lake red C.....lb. .94 - —
170 Fast red A.....lb. .66 - —
180 Fast red VR.....lb. .63 - —
202 Chrome blue black U.....lb. .42½- —
204 Chrome black A.....lb. .47 - —
208 Fast acid blue R.....lb. .63 - —
216 Chrome red B.....lb. .57 - —
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .94 - —
304 Paper yellow.....lb. 1.06 - —
307 Fast cyanin black B.....lb. .77 - —
326 Direct fast scarlet.....lb. 2.03 - —
365 Chrysophenin G .....lb. 1.50 - —
382 Direct scarlet B.....lb. 1.16 - —
387 Direct violet B.....lb. 1.41 - —
394 Direct violet N.....lb. 1.65 - —
401 Developed black BHN.....lb. .89 - —
406 Direct blue 2B.....lb. 1.10 - —
415 Direct orange B.....lb. .60 - —
419 Direct fast red F.....lb. .97 - —
420 Direct brown M.....lb. .76 - —
448 Benzopurpurin 4B.....lb. .72 - —
495 Benzopurpurin 10B.....lb. 1.32 - —
502 Direct azurin G.....lb. 1.05 - —
512 Direct blue RD.....lb. 1.65 - —
518 Direct pure blue 6B.....lb. 2.07 - —
520 Direct pure blue.....lb. 1.32 - —
539 Direct fast black F.....lb. 1.10 - —
581 Direct black EW.....lb. .55 - —
582 Direct black RX.....lb. .66 - —
593 Direct green B.....lb. .66 - —
594 Direct green G.....lb. .70 - —
596 Direct brown 3GO.....lb. .69 - —
620 Direct yellow R.....lb. .63 - —
698 Acid violet.....lb. .93 - —
812 Primulin .....lb. .77 - —
814 Direct fast yellow.....lb. .97 - —
865 Nigrosin (water-soluble).....lb. .38 - —
1177 Indigo, 20%, paste.....lb. .20½- —
Benzo fast black L.....lb. 1.49 - —
Sulphur black.....lb. .29 - —
Sulphur blue.....lb. 1.06 - —
Zambesi black.....lb. 1.05 - —

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives .....lb. .38 - —
Blue—
1075 Alizarin astral base.....lb. 2.48 - —
1073 Alizarin, irisol R .....lb. 3.96 - —
Brown—
Brown, oil-soluble .....lb. 1.88 - —
Green—
1078 Alizarin cyanin green base.lb. 2.20 - —
Orange—
24 Sudan I .....lb. .61 - —
Red—
258 Sudan IV.....lb. 1.10 - —
689 Oil violet .....lb. .88 - —
749 Rhodamine B (oil pink).....lb. 5.28 - —
1080 Anthraquinone, violet base.lb. 5.50 - —
Yellow—
15 Amidoazobenzene yellow...lb. .90 - —
17 Amidoazotoluene yellow...lb. .77 - —
61 Yellow, OB .....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices E. in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
861 Nigrosin .....lb. .40 - —
Blue—
860 Indulin .....lb. .68 - .70
Brown—
831 Bismarck brown.....lb. .83 - —
Green—
667 Malachite green base.....lb. 1.48 - —
Orange—
30 Chrysoidin G.....lb. .42 - —

Dyes, coaltar, for stains, spirit-soluble (prices E. in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Red—
677 Fuchsin, magenta, base...lb. 2.31 - —
749 Rhodamine B .....lb. 5.28 - —
Yellow—
67 Amidoazotoluene yellow...lb. .77 - —
655 Auramine .....lb. 2.20 - —
800 Chinolin yellow SS.....lb. 2.00 - —
Violet—
680 Methyl violet base.....lb. .88 - —

Dyes, coaltar, for stains, water-soluble prices in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black S.....lb .53 - —
873 Methylene gray .....lb. 1.50 - —
Blue—
714 Patent blue A.....lb. 2.48 - —
729 Victoria blue B.....lb. 2.53 - —
861 Indulin .....lb. .99 - —
900 New blue P.....lb. 1.43 - —
922 Methylene blue.....lb. 1.49 - —
1054 Alizarin sapbirol B.....lb. 1.98 - —
1180 Indigotin IA.....lb. .94 - —
Brown—
234 Resorcin brown Y.....lb. .99 - —
235 Resorcin dark brown R....lb. .65 - —
331 Bismarck brown G.....lb. .83 - —
332 Bismarck brown R.....lb. .53 - —
793 Phosphin .....lb. 1.85 - —
Green—
3 Naphthol green B.....lb. 1.07 - —
657 Malachite green.....lb. 1.43 - —
662 Brilliant green.....lb. 2.09 - —
666 Guinea green B.....lb. 2.14 - —
737 Wool green S.....lb. 1.62 - —
924 Methylene green B.....lb. 1.55 - —
1078 Alizarin cyanin green.....lb. 2.20 - —

Dyes, coaltar, for stains, water-soluble (prices in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Orange—
20 Chrysoidin G .....lb. .42 - —
21 Chrysoidin R .....lb. .39 - —
27 Orange G .....lb. .53 - —
151 Orange Y.....lb. .31 - —
161 Orange R .....lb .33 - —
Red—
31 Amidonaphthol red G.....lb. .66 - —
57 Amidonaphthol red 6B.....lb. .90 - —
79 Ponceau R .....lb. .51 - —
88 Fast red B .....lb. .53 - —
175 Fast red A.....lb. .66 - —
179 Azorubin .....lb. .70 - —
183 Crocein scarlet 3BX.....lb .72 - .75
185 Cochineal red A.....lb. .60 - —
257 Brilliant crocein M.....lb .99 - —
677 Fuchsin .....lb. 2.31 - —
749 Rhodamine B .....lb. 5.28 - —
752 Rhodamine 6B .....lb 4.95 - —
708 Eosin G .....lb. 1.50 - —
841 Safranin .....lb 1.97 - —
Violet—
689 Metnyl violet B.....lb. .88 - —
681 Crystal violet B.....lb. 1.91 - —
695 Acid violet 4BN.....lb. .98 - —
Yellow—
10 Naphthol yellow S.....lb. .95 - —
188 Metanil yellow .....lb. .62 - —
636 Fast light yellow.....lb. 1.59 - —
639 Xylene light yellow.....lb. 1.32 - —
640 Tartrazin .....lb. .99 - —
655 Auramine .....lb. 2.20 - —
Dyes, natural (see name of material).

E

Echinacea root, bls. .....lb. .65 - .70
Egg albumen (see Albumen)
Yolk, dried, dom., bbls.....lb. 1.20 - 1.25
tanners, bbls. .....lb. .05 - .07
Elder flowers, bright, bls.....lb. .65 - .66
Elecampane root, bls.....lb. .35 - .40
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .45 - .50
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots.....oz.53.50 -54.00
Ephedra herb, bls.....lb. .20 - .21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs..oz. .84 - —
hydrous, bots., 100 ozs.....oz. .76 - —
Hydrochloride, tin, 100 ozs....oz. .60 - —
Sulphate, cryst., tins, 100 ozs..oz. .57 - —
powd., tins, 100 ozs.....oz. .58 - —
Epichlorohydrin, dms., c.l., works, lb. .46 - —
l.c.l., works.....lb. .46½- —
tanks, works.....lb. .44½- —
Epinephrine, synth., USP, bots..gram. .69 - .76
Epsom salt, tech., cryst., bgs., c.l., 100 lbs. 2.05 - —
l.c.l .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l.....100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.50 - —
smaller lots.....100 lbs. 2.75 - —
bbls., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.60 - —
smaller lots .....100 lbs. 2.85 - —
kgs., c.l.....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.85 - —
smaller lots.....100 lbs. 3.10 - —
Epsom salt prices freight equalized: Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich.
Ergot, USP, cns.....lb 1.25 - 1.30
Eserine, bots.....oz. No prices
Sulphate, bots.....oz.65.00 - —

Life...on the

CUTTING WATER TREATMENT COSTS FROM $50 TO 50¢ A DAY is one example of water demineralizing economy when using Filt-R-Stil* Demineralizers. This new book describing the most modern and economical way to a readily accessible supply of mineral-free water may help you answer your water "problem." It is yours, without obligation, by writing Ion Exchange Products Department, American Cyanamid Company.

THE THOUSANDS OF CARS on the nation's highways will last longer . . . require less "upkeep" . . . thanks to recent advances in the science of lubricating oil additives that protect motors by inhibiting corrosion and oxidation and increasing detergency. An established leader in the field, Cyanamid's most recent contribution is the development of AEROLUBE* Additives, for premium grade motor oils. Technical bulletins on AEROLUBE Additives and other types of additives are available from the Petroleum Chemicals Department.

DURABILITY AND TOUGHNESS . . . essential qualities in modern surface coatings . . . are produced by Cyanamid's REZYL* Resins. These famous alkyd type resins have other good features . . . fast drying, high gloss, good color retention and excellent adhesion. Applications range from bikes and busses to the trim around the door or the refrigerator in the kitchen.

*Reg. U. S. Pat. Off.

PACIFIC CHEMICAL

Ether, acetic (see Ethyl acetate).
Amyl, dms., c.l., works..lb. .095 - —
l.c.l., works..lb. .102 - —
tanks, works..lb. .085 - —
Butyl, dms., l.c.l., dlvd..lb. .31 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, purif., dms., works, frt. equald..lb. .13½- —
l.c.l., same basis..lb. .14 - —
tanks, same basis..lb. .12½- —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., dlvd..lb. .06 - —
l.c.l., dlvd..lb. .06¼- —
tanks, dlvd..lb. .04½- —
Nitrous, conc., bots., 100 lbs..lb. .98 - 1.10
Sulphuric, conc., dms..lb. .18 - .23
USP, anesthesia, hospital, cns..lb. .61 - .75
synthetic, dms., c.l., frt. alld..lb. .18 - —
l.c.l., same basis..lb. .19 - —
tanks, same basis..lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88% dms., c.l., frt. alld..lb. .17½- —
l.c.l., frt. alld..lb. .18½- —
tanks, frt. alld..lb. .16 - —
95-98%, dms., c.l., frt. alld..lb. .18 - —
l.c.l., frt. alld..lb. .19 - —
tanks, frt. alld..lb. .10½- —
99%, dms., c.l., frt. alld..lb. .18½- —
l.c.l., frt. alld..lb. .19½- —
tanks, frt. alld..lb. .16½- —
USP, dms..lb. .27 - —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld..lb. .11 - —
tanks, frt. alld..lb. .09¼- —
95-98%, dms., c.l., frt. alld..lb. .11 - —
l.c.l., frt. alld..lb. .11½- —
tanks, frt. alld..lb. .10 - —
Ethyl acetoacetate, dms., c.l., works..lb. .50½- —
l.c.l., frt. alld..lb. .51½- —
Benzoate, bots..lb. .60½- .65
Betaethoxypropionate, dms., works, lb. .70 - —
Bromide, tech., 98%, dms..lb. .36 - .40
Butyrate, bots..gal. 6.50 - —
cns., works..lb. .65 - .70
dms., works..lb. .60 - —
Carbamate, dms., dlvd. E..lb. .58 - —
Chloride, tech., tanks..lb. .13½- —
USP, bbls., cyl..lb. .20 - .22
Cinnamate, cns..lb. 2.35 - 3.25
Formate, dms., Agnue, Calif..lb. .26 - .32
Iodide, bots..lb. 3.50 - 3.60
Lactate, dms., works..lb. .38½- —
Methacrylate, M-2, dms., works..lb. .60 - —
cns., works..lb. .63 - .67
I-C2, cns., works..lb. .67 - —
Myristate, dms., works..lb. No prices
Oenanthate, dms..lb. 2.90 - 3.25
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld..lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works, lb. .50 - —
Ethylcellulose fib. dms., 5,000 lbs., works..lb. .52 - —
smaller lots, works..lb. .54 - .62
Ethyldiethanolamine, dms., l.c.l., works lb. .80 - —
Ethylene dichloride dms., c.l., works, frt. alld. E. of Rockies..lb. .08½- —
West of Rockies..lb. .09 - —
l.c.l., works, frt. alld. E. of Rockies..lb. .09½- —
West of Rockies..lb. .10 - —
smaller containers..lb. .12½- —
tanks, frt. alld. E. Rockies..lb. .07 - —
West of Rockies..lb. .07½- —
Trichloride (see Trichloroethane).
Ethyleneamine, tanks works..lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E..lb. .13½- —
l.c.l., same basis..lb. .14½- —
tanks, same basis..lb. .12½- —
Monobutylether, dms., c.l., works..lb. .20 - —
l.c.l., works..lb. .21 - —
tanks, works..lb. .19 - —
Monoethylether, dms., c.l., works..lb. .16½- —
l.c.l., works..lb. .17½- —
tanks, works..lb. .15½- —
Monoethylether acetate, dms., c.l., works..lb. .14½- —
l.c.l., works..lb. .15½- —
tanks, works..lb. .13½- —
Monomethylether, dms., c.l., works..lb. .17½- —
l.c.l., works..lb. .18½- —
tanks, works..lb. .16½- —
Ethyleneglycol monoethylether acetate, dms., c.l., works..lb. .23 - —
l.c.l., works..lb. .24 - —
tanks..lb. .22 - —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works..lb. .60 - —
Eth., monoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots., oz. 10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots..lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms..lb. 2.65 - 4.00
Eucalyptus leaves, bls..lb. .14 - .15
Eugenol, prime, USP XII..lb. 2.35 - 3.25
Euphorbia herb, bls..lb. .18 - .19

F

Feldspar, enamel, 100 mesh, bgs, works. ton.17.00 -20.50
bulk, c.l., works..ton.14.00 -17.50
glass, 20 mesh, bgs., 2 tons, works. ton.12.75 -16.25
bulk, c.l..ton. 9.75 -12.25
Feldspar, pottery, bgs., l.c.l., 2 tons, works..ton.20.00 -22.00
bulk, c.l., works..ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures. lb. .07¼- .07⅝
Indian, bgs, afloat..lb. .15½- .16
Fenugreek, domestic, bgs..lb. .10 - .10⅛
Indian, bgs..lb. .09¼- .10
futures, bgs..lb. .09 - .09¼
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works..lb. .14½- —
water-white, cs., works..lb. .15½- —
Fir balsam, Canada cns..gal.22.50 -22.00
Oregon, bbls..gal. 2.35 - 2.65
Fishberries, bgs..lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., Baltic area..ton.130.00 - —
65% protein, bgs., Balto. area..ton.135.00 - —
Fishscrap, dried, 60% protein, bulk, Balto area..ton.120.00 - —
Flaxseed, black, bgs..lb. .45 - .46
blonde, bgs..lb. .26 - .27
Husks, bgs..lb. .66 - .67
Fluorspar, No. 1, ground 97-98% CaF_2, bulk, c.l., mines, net ton.37.00 - —
washed gravel, 75% or more CaF_2, bulk c.l., mines..ton.32.00 - —
65% bulk c.l., mines..ton.32.00 - —
60% bulk c.l., mines..ton.31.00 - —
less than 60% bulk, c.l., mines.. ton.30.00 - —
Formaldehyde, bbls., c.l., works..lb. .0345- .0393
l.c.l., works..lb. .0365- .0745
dms., extra, c.l., works..lb. .0545- .0593
l.c.l., works..lb. .0565- .0643
tanks, works..lb. .0370- .0420
tanktrucks, dlvd. N.Y.C..lb. .0395- .0443
Fringetree bark, bls..lb. .65 - .66
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton.20.00 - —
Tex. mines..ton.27.00 - —
spent, bulk, Bayoune..ton.7.00 - 4.00
tmp., bgs., c.l..ton.30.00 -40.00
Furfural, tech., dms., c.l., works..lb. .13 - —
dms., cns., l.c.l., works..lb. .15½- .20⅛
tanks, works..lb. .09½- —
Fusel oil, dms., c.l..lb. .26½- —
c.l..lb. .27½- —
tanks..lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
No. 1A, bbls., l.c.l..lb. .40 - —
No. 2, bbls., l.c.l..lb. .39 - —
No. 3, bbls., l.c.l..lb. .37 - —
Liquid, No. 0, bbls., l.c.l..lb. .21½- —
No. 1, bbls., l.c.l..lb. .20 - —
No. 2, bbls., l.c.l..lb. .19 - —
No. 3, bbls., l.c.l..lb. .16½- —
solid, No. 1, bxs, l.c.l..lb. .27 - —

G

G salt, bbls..lb. .53 - —
Galangal root, bls..lb. .25 - .26
Gambier, plantation, bgs., ex dock..lb. .21 - .23
Extract, bbls..lb. No stocks.
Gammapicoline, 95%, dms., c.l., works. lb. 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks.. gal. .0825- —
Bayonne, 74 octane, tanks..gal. .09 - —
Gulf coast, 73-75 octane, tanks. gal. .0825- .085
Group 3, 73-75 octane, tanks..gal. .0825- .0918
Pennsylvania, western, U. S., motor, 74 octane leaded, tanks. gal. .0925-.0987½
natural, 25-16 octane group 3, tanks..gal. .0588- —
Gelatin, silver label, cns., dlvd..lb. 1.27 - —
export, cs..lb. 1.33 - —
Gelatin prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash, Wyo.
Gelsemium root, bls..lb. .35 - .40
Gentian root, bls..lb. .20 - .21
grd., bbls., bxs..lb. .26 - .27
powd., bbls., bxs..lb. .24 - .25
Geraniol, 92-96%, cns., dms..lb. 3.40 - —
prime..lb. 2.75 - —
Geranyl acetate, cns..lb. 3.35 - 3.55
Ginger, oleoresin, bots..lb. 4.25 - 4.75
Root, African, No. 1, bls..lb. .12½- .13
Cochin, bleached, bgs..lb. .16 - .16½
unbleached, bgs..lb. .15 - .15½
Jamaica, No. 1, bgs..lb. .18 - .18½
No. 2, bgs..lb. .15½- .16
No. 3, bgs..lb. .15 - .15⅛
Rhattoon, bgs..lb. .13½ Nom.
Glauber's salt, anhyd. (see Soda sulphate)
cryst. ngs., works..100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millinoise, 30 jellygrams, bgs., c.l., East of Midwest..lb. .21 - .24
30/36, bgs., c.l., same basis..lb. .22 - .26
58/82, bgs., c.l., same basis..lb. .25 - .28
82/108, bgs., c.l., same basis..lb. .25 - .27
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .20 - .21½
122-149, bgs., c.l., dlvd..lb. .21 - .23½
150-177, bgs., c.l., dlvd..lb. .22 - .24½
178-206, bgs., c.l., dlvd..lb. .23 - .25½
207-235, bgs., c.l., dlvd..lb. .24 - .26½
236-268, bgs., c.l., dlvd..lb. .25 - .27½
267-298, bgs., c.l., dlvd..lb. .26 - .28½
299-330, bgs., c.l., dlvd..lb. .27 - .29½
331-362, bgs., c.l., dlvd..lb. .28 - .30½
363-394, bgs., c.l., dlvd..lb. .29 - .31½
395-427, bgs., c.l., dlvd..lb. .30 - .32½
428-460, bgs., c.l., dlvd..lb. .31 - .33½
461-494, bgs., c.l., dlvd..lb. .32 - .36½
495-529, bgs., c.l., dlvd..lb. .35 - .37½
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd..lb. .23 - .24
soaplye, 80%, tanks, dlvd..lb. .22 - .23
dynamite, cns., c.l., dlvd..lb. .27½- —
l.c.l., dlvd..lb. .30 - —
tanks, dlvd..lb. .25½- —
high gravity, dms., c.l..lb. .23½- —
l.c.l..lb. .26 - —
tanks..lb. .23½- —
refined, BP, 95%, dms., c.l..lb. .23½- —
tanks..lb. .23½- —
USP, 95%, dms., c.l..lb. .25½- —
l.c.l..lb. .30 - —
tanks..lb. .23½- —
yellow, distilled, dms., c.l..lb. .29½- —
l.c.l..lb. .29½- —
Glycine, USP (see Acid, aminoacetic).
Glycol boriborate, dms..lb. .22 - —
Stearate, dms..lb. .25 - —
Gold chloride, acid-brown, bots..oz.20.00 -20.50
acid-yellow, bots..oz.18.75 -19.00
Gold of pleasure seed, bgs., futures..lb. .30 - .31
Goldenseal root, bls..lb. 8.25 - 8.35
powd., bxs..lb. 8.00 - 8.75
Gold-sodium chloride, photo, bots..oz.13.00 -13.50
USP 1X, bots..oz.14.00 -14.50
Grains of paradise, bgs..lb. .40 - .42

Chemical Newsfront

IRON BLUE AND CHROME GREEN PIGMENTS made with Cyanamid's AERO** Brand Yellow Prussiate of Soda and Yellow Prussiate of Potash are known throughout the dry color industry. These pigments are used in the manufacture of high-quality floor coverings, paints, lacquers, enamels, printing inks, typewriter ribbons, carbon paper, crayons. These prussiates find wide and important use, too, in printing aniline blacks on cotton and rayon, and in the coating of speed blueprint paper.

PLIABILITY AND WATER RESISTANCE are two qualities of paper that are much improved by adding Cyanamid's ALWAX** Sizes. Products ranging from note paper to milk bottle hoods benefit by as little as one to two-tenths of one per cent of ALWAX Sizes. Paper is less likely to crack and break due to loss in moisture content. This is particularly important where indoor humidities are low . . . and superior folding, creasing, scoring and crimping qualities are desired. Vastly increased, too, is the paper's resistance to penetration by water, printing inks and other organic liquids. ALWAX Sizes are one of many Cyanamid chemicals designed to solve a wide range of paper and packaging problems.

**Trade-mark

AMERICAN Cyanamid COMPANY

Industrial Chemicals Division

30 ROCKEFELLER PLAZA · NEW YORK 20, N. Y.

Graphite—Hyssop Leaves

Graphite, imported, amorph., powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd, bgs., ex whse. lb .16 - .19
97%, powd., bgs., ex whse....lb .22 - .25
flake, No. 1, 90-95%, crtns, bgs., ex whse..lb. .21 - .22
No. 2, bgs., ex whse..... lb .22 - .24
Grease, house, loose.....lb. .13¼ Nom.
White, choice, loose.....lb .15 Nom.
Wool (see Degras and Lanolin).
Yellow, loose .....lb. .13½ Nom.
Green, brilliant, thioflavin toner, molybdic, kgs., works. lb. 4.25 - —
Tungstic, kgs., works.....lb 4.25 - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis.....lb. .32 - —
6-10%, bbls., same basis..lb. .33 - —
11-15%, bbls., same basis..lb. .34 - —
16-20%, bbls., same basis..lb. .34½- —
21-25%, bbls., same basis..lb. .35½- —
26-30%, bbls., same basis..lb. .35¾- —
31-35%, bbls., same basis..lb. .35½- —
36-40%, bbls., same basis..lb. .38½- —
41-45%, bbls., same basis..lb. .40 - —
46-50%, bbls., same basis..lb. .41¾- —
50% and over, bbls., same basis..lb. .42¾- —
Blue, chrome, reduced color, 5%, bbls., same basis..lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¼- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .14¼- —
34-35%, bbls., same basis..lb. .17¼- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22¼- —
46-50%, bbls., same basis..lb. .23¾- —
51-55%, bbls., same basis..lb. .23¼- —
56-60%, bbls., same basis..lb. .24 - —
61-65%, bbls., same basis..lb. .25 - —
66-70%, bbls., same basis..lb. .26¼- —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.); Miss., N. C., S. C., Tenn., Texas (Dallas Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Chrome oxide, hydrated, bbls., works..lb. .85 - —
pure, bgs., works.....lb. .30 - .33
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, bbls., works.....lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb. 4.40 - 5.00
Blue, tungstated, brilliant, kgs.....lb. 3.00 - 4.00
Emerald, kgs.....lb. 2.60 - —
Verditgris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta herb, bls.....lb. .30 - .33
Guaiac resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., NF, tins.....lb. 1.75 - —
liquid, NF, bots., cbys.....lb. 1.80 - —
Carbonate, dms.....lb. 2.85 - —
Guarana, powd., cs.....lb. 2.00 - 2.10
Gum, accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. 90 - .95
Arabic, amber, sorts, bgs.....lb. .14 - .14½
white, sorts, 1, bgs.....lb. .28 - .29
Asafetida (see A).
Asphaltum (see A).
Batu, bold, cs.....lb. No prices
nuts, chips, bgs.....lb No prices
Benzoin, Sumatra, cs.....lb. .50 - .55
Camphor (see C).
Copal, Congo, bgs.....lb. No prices
East India, bgs.....lb. No prices
Manila, baskets.....lb. No prices
Dammar, Batavia, AE, cs.....lb. No prices
F, cs.....lb. No prices
Singapore, No. 1, cs.....lb. No prices
No. 2, cs.....lb. No prices
Elemi, cns.....lb. No prices
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....lb. .16¾- —
wood-resin type, dms., any quantity, dlvd., Ill., Ind., etc..lb. .16¾- —
Euphorbium, cs.....lb. 1.50 Nom.
Galbanum, cs.....lb. .85 - .90
Gamboge, pipe, cs.....lb. 1.70 - 2.00
powd., bbls.....lb. 1.95 - 2.25
Gum, ghatti, No. 2, bgs.....lb. .35 - .37
No. 3, bgs.....lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, No. 1.....lb. .46 - .51
No. 2.....lb. .38 - .43
No. 3.....lb. .33 - .36
No. 4.....lb. .28 - .31
No. 5.....lb. .23 - .27
No. 6.....lb. .20 - .22
Kauri, bgs.....lb. .31 - —
Locust bean, powd., bbls.....lb. .45 - —
Mastic, cs.....lb. No prices
Myrrh, cs.....lb. .45 - .46
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .22 - .38
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks.....lb. No prices
Scammony, cs.....lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 3.75 - 3.80
No. 2, cs.....lb. 3.00 - 3.10
No. 3, cs.....lb. 2.00 - 2.10
Yacca, bgs.....lb. No prices
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald... ton.22.65 - —
Harlem river, N. Y., frt. equald. ton.28 25 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald. ton.30 65 - —
Southard, Okla., frt. equald.ton 17.00 - —
Sweetwater, Tex., frt. equald... ton.21 45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton.12.50 - —
Blue Rapids, Kans., frt. equald. ton.10.50 - —
Harlem river, N. Y., frt. equald. ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald. ton.12.00 - —
Southard, Okla., frt. equald.ton 12.50 - —
Sweetwater, Tex., frt. equald... ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald..ton 8.00 - —
Akron, N. Y., frt. equald...ton. 8.00 - —
Blue Rapids, Kans., frt. equald. ton. 8.00 —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald. ton. 8.00 —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Gypsum, Ohio, frt. equald.ton. 8.00 - —
Harlem river, N. Y., frt. equald. ton. 8.00 —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald..ton. 8.00 - —
Plasterco, Ga., frt. equald.ton. 8.00 - —
Portsmouth, N. H., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Saltville, Va., frt. equald..ton. 9.00 - —
Southard, Okla., frt. equald.ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Saltville, Va., frt. equald...ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y.; works..ton.22.50 - —
New Brighton, N. Y., works... ton.21.00 - —

H

Hawthorn berries, bgs.....lb. .57 - .58
Heliotropin, cryst., cns.....lb. 2.95 - 4.00
Hellebore, white, powd. bbls.....lb. .70 - .71
Helonias root, bls.....lb 2.20 - 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l...lb. .44 - —
No. 1, bbls., l.c.l .....lb. .43 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
No. 4, bbls., l.c.l.....lb. .35 - —
No. 5, bbls., l.c.l.....lb. .33 - —
paste, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, (red), bbls., l.c.l.....lb. .12 - —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. 1.00 - 1.25
Henna leaves, bls.....lb. .25 - .28
powd., bbls., bxs.....lb. .34 - .36
Heptane, industrial, 90°-100° C., dms., c.l., group 3..gal. .13½- 16
l.c.l., group 3.....gal. .19 - .35
tanks, group 3.....gal. .10¾- .10⅞
77°-115° C., dms. c.l., group 3 .gal. .13½- 17
l.c.l., group 3.....gal. .19 - .35
tanks, group 3.....gal. .10½- .11¼
laboratory, dms., c.l., group 3..gal. .16 - —
l.c.l., group 3 .....gal. .29 - .55
Hexalin (see Cyclohexanol).
Hexaethyl tetraphosphate, cns., works, lb. 1.25 - —
dms., c.l., works.....lb. .80 - —
l.c.l., works.....lb. .90 - 1.00
Hexamethylene-tetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .28 - —
smaller lots, same basis.....lb. .29 - —
USP, dms., 500 lbs or more, same basis..lb. .35 - —
smaller lots, same basis.....lb. .36 - —
Hexane, industrial, 60°-70° C., dms., c.l., group 3 .gal. .14¼- .17
l.c.l., group 3.....gal. .19 - .35
tanks, group 3 .....gal. .10⅝- .11¼
laboratory, dms., c.l., group 3....gal. .16 - —
l.c.l., group 3 .....gal. .29 - .55
Hexanol, normal, dms. l.c.l, works.lb. .25 - —
Homatropine hydrobromide, bots...oz.15.00 -25.00
Hydrochloride, bots.....oz.20.00 -22.00
Hoffmeal, 17 18% ammonia bulk, c.l., Chicago..unit-ton. 7.00 - —
Hops, NF, bls .....lb. .55 - 1.30
Horehound, bls.....lb. .12 - .13
Hydrangea root, bls.....lb .22 - .25
Hydrastine, bots.....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-grain bots.....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydroflouramide dms., fib cns., works, lb. .30 - .40
Hydrogen peroxide, USP, bbls.....lb. .03¾- .05
100 vols., clys., E. of Miss. or West coast via Panama Canal..lb. 15½- 18½
Hydroquinine, bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns. .....lb. 6.50 - 7.50
Hyoscine hydrobromide, bots.....oz.39.00 -45.00
Hyoscyamine, bots.....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -15.00
Hypernic extract, cryst, No. 1, bbls., l.c.l...lb. .51 - —
No. 2, bbls., l.c.l.....lb. .43 - —
liquid, No. 1, bbls., l.c.l.....lb. .28 - —
No. 2, bbls., l.c.l.....lb. .23 - —
solid, No. 1 bxs., l.c.l.....lb. .40 - —
Hyssop herb, bgs.....lb. .55 - .60
Leaves, bgs.....lb. .69 - .70

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I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NE, bots.....lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb. 18.50 -28.00
Inositol, tins, works.....lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., bots., jars.....lb. 2.35 - 2.65
Iodoform, dms., kgs.....lb. 4.45 - —
Ionone ketone, alpha, cns.....lb. 12.30 -16.40
beta, cns.....lb. 11.50 -12.50
pure, cns.....lb. 5.65 - 7.95
Methyl (see M).
IPC, bots., 1-5 lbs.....lb. 2.68 - 2.72
fib. dms., 100 lbs., ship. point.....lb. 2.30 - 2.50
50 lbs., ship. point.....lb. 2.40 - 2.52
10-25 lbs., ship. point.....lb. 2.50 - 2.54
Ipecac root, bgs.....lb. 5.20 - 5.25
powd., bgs.....lb. 5.45 - 5.50
Irish moss, bleached, prime, bls.....lb. .24 - .39
Iron acetate, liquor, 28°, bbls., c.l., works..lb. .00 - —
l.c.l., works.....lb. .09¾- —
solut., USP IX, cbys.....lb. .17 - —
djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld. 100 lbs. 4.00 - 6.00
USP X, jump, bbls.....lb. .07 - .08¼
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½- .06
djns., same basis.....lb. .10 - —
Citrate, gran., dms.....lb. .77 - .79
Glycerophosphate, N.F., powd.....lb. 4.35 - —
Hypophosphite, bbls., dms.....lb. 1.50 - 1.52
Iodide, bots.....lb. 3.48 - 3.63
Naphthenate, 6% Fe, dms.....lb. .19½- —
Nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, gran., dms.....lb. .33 - .35
powd., cns.....lb. .52 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cs.lb. .54 - .67
Pyrophosphate, soluble, NF VII, gran., dms..lb. .59 - .62
Reduced, 90%, kgs.....lb. .65 - .75
Resinate, 7.4%, Fe, dms.....lb. .22 - —
Stearate, dms., c.l.....lb. .42 - —
ton lots.....lb. .43 - —
less ton lots.....lb. .44 - —
Sulphate (ferric), anhyd., bgs., c.l., works..ton. 35.00 - —
l.c.l., works.....ton. 40.00 - —
partially hydrated, bgs., c.l., works..ton. 26.50 - —
(ferrous), tech. (see Copperas).
USP, cryst., bbls., dms.....lb. .06 - .08
Iron-ammonium citrate, brown, green, gran., dms..lb. .45 - .48
Oxalate, bbls.....lb. .23½- —
dms., kgs.....lb. .25½- .26½
Iron-sodium oxalate, bbls., dms.....lb. .25½- .26½
Isobornyl acetate, cns.....lb. .72 - 1.10
Thiocyanoacetate, dms., c.l., works gal. 4.35 - —
l.c.l., works.....gal. 4.45 - 4.55
tanks, works.....gal. 4.23 - —
Isobutyl acetate, cns.....lb. .97 - 1.10
Methacrylate, M-5, dms., works...lb. .60 - —
cns., works.....lb. .63 - .67
P-5, cns., works.....lb. .60 - —
Propionate cas.....lb. No prices.
Isobutyraldehyde, dms., works.....lb. .33 - .36
Isoeugenol, extra, cns.....lb. 3.25 - 4.00
chys., extra.....lb. 3.25 - —
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works.....lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld., E. of Rockies..lb. .1160- .1210
l.c.l., same basis.....lb. .1210- .1260
tanks, same basis.....lb. .1100- .1150
Alcohol (see Alcohol, isopropyl).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works.....lb. .35 - —

J

Jaborandi leaves, bls.....lb. .24 - .25
Jalap root, NF, bls.....lb. .44 - .49
powd., bbls., bxs.....lb. .50 - .55
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .12 - .20
Tar, USP, dms.....lb. .50 - .92

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .07125- —
Bayonne, 41-43, w.w., tanks....gal. .082 - —
California, 40-43, w.w., tanks..gal. .0830- .1005
Gulf ports, 41-43, w.w., tanks..gal. .0650- .0713
Okla.-Tex., 41-43, w.w., tanks..gal. .0700- .0735
Penn., 45 w.w., tanks.....gal. .0850- .0900
47 w.w., tanks.....gal. .0900- .0950
Kola nuts, bgs.....lb. .08 - .09
Kyanite, imp., low iron content, 10-mesh, whse..ton. 85.00 -95.00
calcined, grain, 10-mesh, whse..ton. 95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin, anhyd., cosmetic, dms., works, lb. .27 - —
USP, dms., works.....lb. .25 - —
hydrous, cosmetic, dms., works....lb. .25½- —
USP, dms., works.....lb. .23½- —
Lard, cash, trcs., Chicago.....lb. .17¾- .18
Larkspur seed, bgs.....lb. .55 - .57
Laurel berries, bls.....lb. .27 - .29
Leaves, Algerian, bls.....lb. .13 - .13¼
Cyprian, bls.....lb. .28 Nom.
Greek, bls.....lb. .11½- .12
Portuguese, choice, bls.....lb. .10½- .11
ordinary, bls.....lb. .10 - .10½
Turkish, choice, bls.....lb. .17 - .17½
ordinary, bls.....lb. .10½- .11
Lavender flowers, medium, bls.....lb. .66 - —
ordinary, bls.....lb. .31 - —
select, bls.....lb. .75 - —
Lead acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19¼- —
gran., powd., bbls.....lb. .19¼- —
Arsenate, basic, powder, 3-lb. bgs. or larger, c.l..lb. .21¾- —
l.c.l.....lb. .22¾- .23¾
1-lb. bgs., c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼
Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., ship't pt. frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Lead carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, jars.....lb. 2.94 - —
Linoleate, solid, 13%, bbls.....lb. .41¾- —
Metal, pigs, prime, N. Y.....lb. .15 - —
E. St. Louis.....lb. .1480- .1485
Metallic paste, dms., 10,000-40,000 lbs., works..lb. .27½- —
2,000-10,000 lbs., same basis....lb. .28½- —
up to 2,000 lbs., same basis....lb. .30 - —
Naphthenate, 21% Pb, liquid, dms..lb. .20½- —
30% Pb, liquid, dms.....lb. .24¾- —
37% Pb, solid, dms.....lb. .27½- —
Nitrate, bbls., c.l.....lb. .17¾- —
l.c.l.....lb. .18 - —
Oleate, bbls.....lb. .26¼- —
Peroxide, powd., tech., bbls.....lb. .29 - .31
Red, 95% Pb_3O_4 or less, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1760- —
l.c.l., 5 tons, same basis.....lb. .1800- —
smaller lots, same basis....lb. .1850- —
in oil, kgs.....lb. .2675- —
97% Pb_3O_4, bbls., c.l., same basis..lb. .1785- —
l.c.l., 5 tons, same basis.....lb. .1825- —
smaller lots, same basis....lb. .1875- —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1810- —
l.c.l., 5 tons, same basis.....lb. .1860- —
smaller lots, same basis....lb. .1900- —
Resinate, precip., 23.8% Pb., dms. lb. .25 - —
Silicate, bgs.....lb. .17 - .17½
Soyate, 26.15% Pb., dms.....lb. .33¾- —
Stearate, bbls., c.l.....lb. .44 - —
ton lots.....lb. .45 - —
less ton lots.....lb. .46 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Lead tallate, 16% Pb, liquid, dms..lb. .14 - —
30% Pb., solid, dms.....lb. .19 - —
White, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¾- .16
l.c.l., works.....lb. .16 - .16¼
Basic sulphate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Lecithin, edible, dms., c.l., works..lb. .31 - —
l.c.l., works.....lb. .32 - —
tech., dms., c.l., works.....lb. .31 - —
l.c.l., works.....lb. .32 - —
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns.....lb. .40 - .42
powd., bbls.....lb. .60 - .62
Root, bls.....lb. .09 - .10
5-lb. bundles, cs.....lb. .60 - .65
powd., bbls.....lb. .14 - .15
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works..tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.....ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefont, Pa.....ton. 8.50 - —
Berkeley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton. 10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa.....ton. 9.00 - —
Crab Orchard, Tenn.....ton. 8.50 - —
Eagle Mountain, Va.....ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 8.50 - —
Knoxville, Tenn.....ton. 8.50 - —

Iceland Moss—Lime, Chemical

Lime, chemical (quicklime), Limedale, Ark..ton. 8.00 - —
Longview, Ala.....ton. 8.50 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 8.50 - —
Manistique, Mich.....ton. 8.00 - —
Marblehead, Ohio.....ton. 8.50 - —
Martinsburg, W. Va.....ton. 8.50 - —
Menominee, Mich.....ton. 8.00 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.30 - —
Sherwood, Wis.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
hydrated, paper bgs., Adams, Mass..ton. 11.25 - —
Annville, Pa.....ton. 11.00 - —
Bellefonte, Pa.....ton. 11.00 - —
Berkeley, W. Va.....ton. 10.00 - —
Buffalo, N. Y.....ton. 11.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa.....ton. 11.00 - —
Crab Orchard, Tenn.....ton. 11.65 - —
Eagle Mountain, Va.....ton. 10.00 - —
Engle, W. Va.....ton. 11.00 - —
Farnams, Mass.....ton. 11.00 - —
Gibsonburg, Ohio.....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton. 11.35 - —
Knoxville, Tenn.....ton. 11.00 - —
LeRoy, Minn.....ton. 10.00 - —
Limedale, Ark.....ton. 10.00 - —
Longview, Ala.....ton. 11.65 - —
Marblehead, Ohio.....ton. 10.50 - —

Are you making Petroleum's New National Campaign work for YOU?

#2 Ad in the series

Understand Rivalry and you understand America

There's a lot more to this picture than three little boys competing for a maiden's favor. Behind it is the spirit of rivalry that moves America ahead — the competitive spirit that makes us all eager to accept a challenge to show what we can do, and be judged by how well we do it.

Rivalry is second nature to Americans. We're raised on it. It helped us win a leadership the whole world envies. Competition is in our blood. We like it. We put it to good use.

Take the Petroleum Industry, with more than 34,000 individual firms of all sizes. In every phase of this business employing 1,250,000 people, companies work to outdo rivals; compete in oil production, compete in refining, compete in research for new uses, compete in sales. That's why Americans get petroleum products at the lowest price in the world. Taxes and prices vary of course, but gasoline in the U. S. is always the world's best bargain.

Nor does the race to make new products, better products, stop with gasoline and lubricants. In a hundred different fields, petroleum and its countless by-products continue the race to produce more and more oil to meet record-breaking demand — competition.

The result — better health, a chance to go more places more easily, more comfort more constantly more, for you.

THERE'S A PLUS FOR YOU IN PETROLEUM'S PROGRESS

The deepest producing well — 15,888 feet — completes the competitive spirit with which 13,479 production companies seek to help maintain your all-important oil reserves.

Special fuel barges — moved over rivers by tow-boats of enormous power — move daily as much as 3,280,000 gallons in one tow. 650 companies engage in oil transportation by barges, rail, pipeline or tanker.

Today, the modern car gives you far more power, better performance, greater comfort because competition among some 600 refineries resulted in the finer fuels which make possible the high-compression engine.

Oil from the ground to produce food from the ground. Over 20,000 petroleum dispensers and jobbers help fuel the farm machinery used to grow food to feed you.

Service stations everywhere, over 233,000 of them — employing over half a million people at a billion dollar annual payroll — compete with rivals to serve to you.

Prepared for the oil industry by the American Petroleum Institute — Copyright, 1947

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You've seen the start of the new national magazine campaign of the petroleum industry appearing regularly in LIFE, SATURDAY EVENING POST, COLLIER'S and LOOK — some of the page ads in full color and black and white which explain to the public "the plus for you in petroleum's progress." They will reach an estimated audience of more than 58,000,000 people.

It Can Do A Real Job

Now put this campaign directly to work for *you* and *your* firm . . . personalize the theme over your own firm's signature. How? Just mail this coupon and receive FREE the detailed Plan Book just prepared.

Seven Complete Campaigns

The new Plan Book shows you how to make a natural tie-in with the national campaign — offers FREE mats of seven different newspaper campaigns, display material, radio scripts, envelope enclosures — all effective aids to your business.

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AMERICAN PETROLEUM INSTITUTE
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Please forward at once FREE copy of Plan Book.

Name.....
Title.....
Company.....
Address.....
City.....*State*.....

Lime, Chemical, Hydrated—Methyl Abietate, Hydrogenated

Mitchell, Ind.....ton.10.00 - —
Manistique, Mich.....ton. 9.50 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S. Dak.....ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.00 - —
spray, paper bgs., Adams, Mass. ton.11.70 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Carey, Ohio.....ton.11.00 - —
Engle, W. Va.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.11.00 - —

Lime salts (see Calcium).

Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).

Limestone, grd., bulk, works.....ton. 1.40 - —

Linalool, ex bois de rose.....lb. 6.05 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00

Linalyl acetate, ex bois de rose, bots.lb. 5.75 - 7.60
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5 10 - 6.35

Linden flowers with leaves, bls....lb. .35 - .36
without leaves, bls.....lb. .35 - .36

Linseed meal, 34% bulk, Midwest mills. ton.75.00 Nom.

Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1660- —
l.c.l., 5 tons, same basis..lb. .17 - —
smaller lots, same basis.....lb. .17½- —

Lithium bromide, bbls., works, frt. equald..ton. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.15 - —
Chloride, jars.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls.....lb. 1.90 - —
Hydroxide, jars.....lb. 1.15 - 1.25

Lithopone, ordinary, bgs., c.l., shipping point..lb. .06 - —
l.c.l., same basis.....lb. .06¼- —
bbls., c.l., same basis.....lb. .06½- —
l.c.l., same basis.....lb. .06½- —

Titanated (high-strength), bgs., c.l. lb. .07½- —
smaller lots.....lb. .08 - —
bbls., c.l.....lb. .08 - —
smaller lots.....lb. .08¼- —
Lithopone Pac. Cst. prices ½c. higher.

Liverwort leaves, bls.....lb. .70 - .75

Lobelia herb, bls.....lb. .60 - .65

Lobeline sulphate, bots., works....oz.25.50 -38.00

Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .37 - —
No. 2, bbls., l.c.l.....lb. .35 - —
liquid, No. 1, bbls., l.c.l.....lb. .18 - —
No. 2, bbls., l.c.l.....lb. .17 - —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, bbls., l.c.l.....lb. .16 - —
Logwood extract, solid, No. 1, bxs., l.c.l..lb. .32 - —
No. 2, bxs., l.c.l.....lb. .30 - —
No. 4, bxs., l.c.l.....lb. .27½- —
No. 5, bxs., l.c.l.....lb. .25½- —
No. 6, bxs., l.c.l.....lb. .43½- .48½
Lovage root, imp., bls.....lb. 1.20 - 1.25
Lupulin, NF VII tin.....lb.10.00 -11.00
Lycopodium, NF, cs.....lb. 2.75 - 3.00

M

Mace, No. 1, Sinaw, cs.....lb. 1.40 - 1.45
East Indian, bgs., futures.....lb. 1.40 - 1.45
West Indian, bgs., futures.....lb. 1.45 - 1.50
Broken, bgs., futures.....lb. 1.30 - 1.40
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia, calcined, tech., bbls, works..lb. .29 - —
USP, bbls.....lb. .81 - .83
Magnesium arsenate, bgs., cans, works..lb. .20 - .80
Bromide, dms.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt., alld.....lb. .08¼- —
bbls., c.l., frt. equald.....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald.....lb. .09¾- —
l.c.l., frt. alld.....lb. .10¾- —
USP, bgs., c.l., frt. equald.....lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
Magnesium carbonate, USP, kgs., c.l., frt. equald..lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —
Magnesium carbonate is quoted frt. alld. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Gloustershire, Ocean, and Salem counties, and to Phila. county, Pa., Frt. equald. with N. Y. C. on all other destinations.
Chloride, anhyd., bbls., dlvd.....lb. .12¾- —
flake, bbls., c.l., works.....ton.37.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs.....lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .46 - .47
Metal, 98.8%, ingots, cs.....lb. .20½- —
sticks, cs.....lb. .34 - .88
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls.....lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .44 - —
smaller lots.....lb. .45 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000 lbs.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif.....ton.60.00 - —
dead-burnt, bulk, c.l., Chewalah, Wash.ton.24.00 - —
Maleic anhydride, dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, blacks, bls.....lb. No stocks
Blue, bls.....lb. 1.45 - 1.50
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs.....lb. .12 - .12¼
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks.....lb. .14 - .16
Dioxide, African, battery, 84%-87% bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works.....ton.74.75 -79.79
paper bgs., c.l., works ton.70.00 - —
l.c.l., works.....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide jars.....lb. 5.55 - —
Linoleate, liquid, 4% Mn, dms....lb. .41 - —
solid, precip., 8.2% Mn, bbls.....lb. .43 - —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms.....lb. .33¼- —
Resinate, fused, 3½% Mn, bbls.....lb. .09 - .10½
precip., dms.....lb. .20 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works....lb. No stocks
feed grade, 77-80%, bgs.....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd E..ton.56.00 - —
l.c.l., dlvd. E., of Balto. or Cincinnati..ton.63.00 - —
industrial grade, 80%, bgs.....lb. .05 - .05¾
75%, bgs., c.l., dlvd. East...ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn, dms.....lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs.....lb. .75 - .80
Mannitol, com'l, bbls., works.....lb. .38 - .43
reagent, cs, works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .10 - .10¼
futures, bls.....lb. .09½- .10
French, bls.....lb. .33 - .34
Matico leaves, bls.....lb. .17 - .18
Menadione, USP, bots., works...gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 8.00 - 8.25
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, lævo, cns.....lb. 8.90 - —
racemic, cns.....lb. 7.00 - 7.40
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.33 - 2.35
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.54 - 3.59
Iodide, red, NF, dms.....lb. 4.32 - —
Yellow, NF, fib. dms.....lb. 4.42 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms.....lb. 2.74 - 2.76
Mesityl oxide, dms., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
tanks, dlvd.....lb. .11½- —
Metachloranilin, dms., works.....lb. .65 - —
Metacresol, 98%, dms., works.....lb. .65 - —
Metanitroparatoluidin, bbls.....lb. 1.16 - 1.21
Metaphenylenediamine, kgs.....lb. .72 - —
Metatolylenediamine, kgs.....lb. .77 - —
Methanol, natural, all grades, group A, dms. extra, c.l., E. of Miss. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
group B, dms. incl., c.l., frt. alld. gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
Prices on natural methanol W. of Miss. 3c. higher
synthetic, dms., c.l., zone 1, frt. alld. gal. .34½- —
2, frt. alld. or dlvd.....gal. .37½- —
3, frt. alld.....gal. .41½- —
4, frt. alld.....gal. .41½- —
l.c.l., zone 1, frt. alld. or dlvd.gal. .37 - —
2, frt. alld.....gal. .44 - —
3, dlvd. S. F. and L. A....gal. .42 - —
4, frt. alld or dlvd.....gal. .52½- —
tanks, zone 1, frt. alld.....lb. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —
Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.
Methyl abietate, non-ret, dms., c.l., dlvd..lb. .13¾- —
l.c.l., dlvd.....lb. .13¾- —
hydrogenated, non-ret, dms., c.l., dlvd..lb. .13½- —
l.c.l., dlvd.....lb. .14 - —

BEMIS minute movies

for Shippers who want to save time and money

"The Reform of the Rebellious Powder"

Scenario: **A certain Powdered Pigment is full of good qualities but has one bad habit. Wrong handling makes our hero's one weakness show up. He likes to escape and become unconventionally messy, costing money at home and on the way to work. This fellow needs a little discipline! He's always breaking out of ordinary containers, causing complaints. Can he be reformed? Well...**

Happy Ending: **He meets a strong, dependable, economical container — Bemis Waterproof Laminated Textile Bags. Now our rebellious powder behaves perfectly. He has overcome his only fault. Everybody likes him, and he gives much credit for his popularity to puncture-resistant, siftproof Bemis Waterproof Bags.**

PRE-TESTS STOP PROTESTS! Bemis Waterproof Laminated Textile Bags head off complaints because they are tested *before* they are put to work. Their strength and tear-resistant, puncture-resistant qualities are preproved for you. And their economy is attested by thousands of users.

This Bemis Waterproof Bag is light in weight, yet is the strongest shipping bag made. It protects both ways—what's inside the bag and what's outside, too. It assures low-cost protection against sifting, breakage, change in moisture content, escape or absorption of odors, and many other common shipping complaints. A Bemis Waterproof Bag can be made acid-, oil-, or grease-resistant. It's ideal for LCL and export shipments. It saves on container costs and, empty or filled, it saves storage space and freight costs.

If the *exact* Waterproof Bag you need doesn't exist, the Bemis Shipping Research Laboratory will design it for you.

Write today for a copy of "Seven Facts About Low-Cost Protective Packaging".

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Better
Greater Economy

CALCIUM STEARATE

Calcium Stearate Impalpable Powder Grade A

* BULK—*6 lbs. per cubic foot*

† FINENESS—*99½% through 325 mesh*

¶ HEAVY METALS—*Meets food standards*

ɕ WATER SOLUBLE SALTS—*Less than 0.1% as chloride*

* When packed, 11.5 lbs. per cubic foot. Easily fluffed back to 6 lbs. per cubic foot.

† This means that all aggregates will pass the finest commercially used screen. Actually the ultimate particles are of the order of 3 to 5 microns in size. This insures smoothness and freedom from grit.

¶ This means that the excellent properties of the new material can be applied to food and pharmaceutical uses.

ɕ This means that, with the use of this lubricant, electrical parts can be molded without affecting electrical resistance. It also means that emulsions are easily made and permanent when this compound is used in them.

A refinement of manufacturing techniques—backed by 80 years of experience—gives industry a new and better *Calcium Stearate Impalpable Powder Grade A,* with enhanced use values at greater economy than ever before. Other stearates are also improved correspondingly. For further information ask your nearest Mallinckrodt office.

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UNIFORM • DEPENDABLE • PURITY

Methyl Acetate—Nitrocellulose, Ester-Soluble

Methyl acetate, CP, 97-99%, dms., c.l., E. of Miss. lb. .10½- .12
W. of Miss. lb. .11½- .12
l.c.l., E. of Miss. lb. .11 - .14
W. of Miss lb. .12 - .13½
tanks, E. of Miss lb. .09¼- —
W. of Miss. lb. .10¼- —
tech., dms., c.l., E. of Miss. lb. .07 - .09
W. of Miss. lb. .08 - —
l.c.l., E. of Miss. lb. .07½- .11
W. of Miss. lb. .08½- .10½
tanks, E. of Miss. lb. .06 - —
W. of Miss. lb. .07 - —
Acetoacetate, dms., c.l., frt.alld. E lb. .42 - —
l.c.l., same basis lb. .42½- —
Methyl acetoacetate prices, frt. alld. W., ½c. higher.

Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld. gal. .50 - —
l.c.l., same basis gal. .57 - —
Natural methyl acetone group A prices W. of Miss. 3c. per gal higher.
group B, dms., incl., c.l., E. Miss., frt. alld. gal. .67 - —
l.c.l., same basis gal. .78 - —
tanks, same basis gal. .60 - —
synthetic, dms., c.l. works, frt, alld E. gal. .49½- —
frt. alld. W gal. .51½- —
l.c.l., works, frt, alld. E. gal. .53 - —
frt. alld. W. gal. .55½- —

Methyl acetone, synthetic, tanks, works, frt. alld. E. gal. .42½- —
frt. alld. W. gal. .44½- —
Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Alcohol (see Methanol).
Anthranilate, dms. lb. 2.20 - 2.30
bots., cns. lb. 2.20 - 2.60
Benzoate, cns. lb. .45 - 1.20
Bromide, cns. lb. .63 - .65
cyls. lb. .55 - .70
Chloride, indust., cyl., works lb. .16 - —
tanks, multi-unit, works lb. .14¾- —
single-unit, works lb. .14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd. lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd. lb. .41 - —
Cinnamate, cns. lb. 1.43 - 3.50
Formate, dms. lb. .89 - —
Iodide, bots. lb. 3.00 - 3.25
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, M-1, dms., works lb. .45 - —
cns., works lb. .48 - .58
P-1, cns., works lb. .60 - —
Salicylate, dms., 500 lbs. lb. .40 - —
25-50 lbs. lb. .45 - —
Methylamyl ketone, cns., dms., works, lb. No stocks
Methylcellulose, special vis. (4,000 cps.), fib. ctns., 2,000 lbs. or more, frt. alld. lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80
Methylcellulose, standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more. lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .78
Methylcyclohexane, 98-100%, dms., works. lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works. lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works. lb. No stocks
Methylene blue, tech. (see Dyes, coal-tar).
USP, 100-lb. lots, kgs., frt. equald. lb. 2.20 - —
50-lb. lots, kgs., same basis. lb. 2.30 - —
25-lb. lots, kgs., same basis. lb. 2.35 - —
Chloride, refrig., dms., c.l., dlvd. E lb. .12½- —
l.c.l., dlvd., E. lb. .13½- —
tanks, dlvd., E. lb. .11½- —
Methyleneanilin, dms., ton lots, frt. alld. lb. .36 - —
smaller lots, same basis. lb. .37 - —
Methylethyl ketone, dms., dlvd. lb. .10½- —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .09 - —
Methylhexyl ketone, tech., dms., works. lb. .60 - —
Methylionone, A, cns. lb. 6.55 - 8.80
D, cns. lb. 7.50 - 9.55
prime, cns. lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .14½- —
tanks, dlvd. lb. .12½- —
Methylnaphthyl Ketone, cns. lb. 3.00 - 3.75
Methylpentanediol, dms., works, dlvd. lb. .17½- —
l.c.l., works, dlvd. lb. .18½- —
tanks, works, dlvd. lb. .17 - —

Mica, dry-grd., paint, plastic, 150 mesh, bgs., c.l., works. lb. .63¼- —
roofing, 20 to 80 mesh, works. lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E. lb. .05¼- —
l.c.l., ex whse. or frt. alld. E. lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E. lb. .05 - —
l.c.l., ex whse. or frt. alld. E. lb. .05½- —
paint or lacq., bgs., c.l., works, frt. alld. E. lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E. lb. .06¼- —
l.c.l., ex whse. or frt. alld. E. lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E. lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E. lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07½- —
mica, wet-grd., W. of Miss. R., ½c. higher. W. of Rockies, ¾c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. 10¼- .11¼
spray, bbls., c.l. lb. .11½- .12¼
Whole, roller, bbls., c.l. lb. .37½- .38¼
spray, bbls., c.l. lb. .38¾- .40¼
Sugar, bbls., c.l., works lb. .26 - —
l.c.l., works lb. .26¾- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks, U. S. ports. gal. .22½- .23
Molybdate orange (see Orange, molybdate).
Molybdenum metal, 99% Mo. powd., kgs. lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content. lb. .95 - —
technical, kgs., works, basis Mo. content. lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%. lb. .61 - —
l.c.l., same basis lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equald. lb. .06 - .07½
l.c.l., works lb. .06½- .08½
smaller containers, works lb. .09 - .10
tanks, works, frt. equald. lb. .05½- .06
Monoethanolamine, dms., c.l., frt a ld E. lb. .25½- —
l.c.l., same basis lb. .26½- —
smaller containers, same basis lb. .29½- —
tanks, same basis lb. .24 - —
Monoethylamine, dms., c.l., wks. basis 100%. lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
Monomethylamine, anhydrous, cyl., works, basis 100%. lb. .34½- .44½
25%-40%, dms., c.l., same basis. lb. .34 - —
tanks, same basis lb. .30 - —
Monomethylpara-aminophenol sulphate, dms. lb. 2.40 - 2.90
Monononylnaphthalene, tanks, wks. lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium prosphate, monobasic).
Morphine, bots., 5 ozs. oz. 11.10 - —
cns., 25 ozs. oz. 10.90 - —
Acetate, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.80 - —
Hydrobromide, 5 ozs. oz. 8.95 - —
cns., 25 ozs. oz. 8.70 - —
Hydrochloride, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.75 - —
Sulphate, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.75 - —
Morpholine, dms., l.c.l., works. lb. .67 - —
smaller containers, works. lb. .75 - —
Mullein leaves, bls. lb. .12 - .13
Musk, nat., Tonquin, grains, bots. oz. 38.00 - 52.00
synthetic, ambrette, cns. 8.00 - 14.25
Ketone, cns., 100 lbs. or more. lb. 4.60 - 4.95
25 lbs. lb. 4.70 - 5.05
5 lbs. lb. 4.90 - 5.20
Xylol, cns. lb. 1.60 - 1.80
25 lbs. lb. 1.70 - 1.90
5 lbs. lb. 1.80 - 2.00
Muskroot, bls. lb. No stocks
Mustard seed, Calif., brown, bgs. lb. .22½- .23
yellow, bgs. lb. .23 Nom.
Danish, yellow, bgs. lb. .19 - .19¼
Dutch, yellow, bgs. lb. .17 - .17½
futures, bgs. lb. .17½- .18
Montana, brown, bgs. lb. .16½- .17
new crop futures, source. lb. .10 - .10¼
oriental, bgs lb. .08½- .09
new crop futures, source. lb. .06½- .07
yellow, bgs. lb. .18 - .18¼
new crop futures, source. lb. .14½- .15
Washington, yellow, bgs. lb. No prices
Myrobalans, J1, good quality, ex dock. ton. 54.00 - 55.00
J2, ex dock ton. 51.00 - 52.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74° bgs., bbls., c.l., frt. equald. lb. No prices
tanks, same basis. lb. .035 - .0475
78°, bgs., c.l., same basis. lb. No prices
bbls., c.l., same basis. lb. .0410- .055
l.c.l., same basis. lb. .0435- .06
tanks, same basis. lb. .0375 - .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works, lb. .11 - —
50-lb. cs., c.l., same basis. lb. .11¼- —
1-lb. pkgs., c.l., same basis. lb. .12½- —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y. ton. 13.75 - —
pottery, 200 mesh, bulk, Rochester, N. Y. ton. 17.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, crys., cns. lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls. lb. .39 - —
Chloride, bbls. lb. .20 - —
Cyanide, bots., dms. lb. 1.75 - 2.00
Metal, electro cathodes, cs. lb. .35½- —
Oxide, black, bbls. lb. .35 - .38
Salt, bbls. lb. .14 - .14¼
Nicotinamide, USP, dms., works. kilo. 9.50 - 9.80
Nicotine sulphate, 40%, dms., dealers, frt. allowed over 50 lbs. lb. 988 - —
tins, dealers. lb. 1.105 - —
Niketham ide, bots, cbys. lb. 5.50 - 6.60
Nitercake, bulk, works. ton. 20.00 - 24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08½- .08¾
l.c.l. lb. .09½- .10
tanks lb. .07½- .07¾
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, and 60-80 secs., bbls., c.l., works, dry weight. lb. .26 - —
l.c.l., same basis. lb. .27 - .29
18-25 cps., 125-175 secs., c.l., same basis. lb. .28 - —
l.c.l., same basis. lb. .29 - .31
250-400 secs. and 600-1,000 secs., c.l., same basis. lb. .31 - —
l.c.l., same basis. lb. .32 - .34

Nitrocellulose, spirit-soluble, 30-35 cps., ½, ½, 5-6 and 40-60 secs., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33 - .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.
Nitrogen solution, tanks, works, N.ton.107.00 -114.84
Nitrogenous process tankage, bulk, works, ammo. unit ton. 4.60 - 6.00
Sewage sludge, bulk, works, unit ton.4.15 + 40- —
Nitromethane, dms., c.l., works....lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane, 1, dms., works.....lb. .25 - —
2, dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, bgs .....lb. .44 - .50
Nutmegs, East Indian, bgs., futures, afloat..lb. .55 - .56
West Indian, bgs., now due.....lb. .54 - .55
futures .....lb. .53 - .54
Nux vomica, bls.....lb. .09 - .10
powdered, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100°-140° C, industrial grade, dms., c.l., group 3..gal. .16 - —
l.c.l .....gal. .29 - .55
tanks, group 3.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, bitter, artificial (see Benzaldehyde).
natural, F.P.A., bots.....lb. 4.50 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .69 - 1.30
Angelica root, bots.....lb.35.00 -250.00
Seed, bots.....lb.175.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .65 - 1.00
Russian, cns. .....lb. 3.75 - —
Apricot kernel, cns.....lb. .67 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Balsam, tanks.....lb. .14½ - —
Bay, NF, Puerto Rican, 50-55%, cns. lb. 1.60 - 2.25
55-60%, cns.....lb. 1.75 - 2.35
60-65%, cns.....lb. 2.30 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 3.50 - 4.25
natural, Italian, cns.....lb. 4.40 - 5.50
Birch (see Oil, sweet birch).
Birchbar, crude, cns.....lb. .95 - 1.76
rectified, cns .....lb. No stocks
Bois de rose, Brazil, cns.....lb. 3.50 - 5.50
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.55 - 3.20
redistilled, USP IX, cns.....lb. 2.50 - 3.40
Calamus, cns. .....lb.20.00 -28.00
Camphor, natural, white, cns....lb. 15 - .65
synthetic, dms. .....lb. .15 - .35
Cananga, natural, cns.....lb. 6.00 - 9.10
rectified, cns. .....lb. 9.35 -12.00
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.50 - 6.50
Cardamom, bots. .....lb.23.50 -31.50
Cassia, USP, cns.....lb. 2.75 - 3.75
Castor, blown, ret. dms., c.l.....lb. .30 - .30½
l.c.l. .....lb. .31 - .31½
cold-pressed, USP, ret. dms., c.l. lb. .28¾- —
l.c.l. .....lb. .29¼- —
tanks .....lb. .27¼- —
dehydrated, bodied, dms., c.l....lb. .30¾- —
l.c.l. .....lb. .31½- —
tanks .....lb. .30 - —
unbodied, dms., c.l.....lb. .29¾- —
l.c.l. .....lb. .30½- —
tanks .....lb. .29 - —
No. 3, tech., dms., c.l.....lb. .27½- —
l.c.l. .....lb. .28½- —
tanks .....lb. .26½- —
sulphonated, 50% (48% fat), dms. lb. .16½- .17⅛
75% (60-62% fat), dms.....lb. .23 - .23½
Cedarleaf, USP, cns., dms.....lb. 2.25 - 2.85
Cedarwood, cns.....lb. .70 - .95
dms. .....lb. .70 - .85
Celeryseed, bots. .....lb.15.00 -20.00
Chaulmoogra, NF, cns., dms.....lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb.33.00 -62.00
Leaf, dms. .....lb. 1.85 - —
Citronella, Ceylon, cns.....lb. 1.00 - 2.75
Java, cns .....lb. 1.50 - 4.75
Clove, USP, cns.....lb. 1.35 - 1.70
Coconut, crude, tanks, Atlantic ports..lb. .14 - —
Pac. coast.....lb. .13 - —
refined, Cochin type, tax incl., ret. dms., l.c.l..lb. .19 - —
deodorized, tax incl., ret. dms., l.c.l..lb. .20¼- —
Cod, Newfoundland, dms.....lb. .20 - .22
Codliver, USP, bbls., dms.....gal. 2.40 - 3.50
Coriander, bots.....lb.17.00 -25.00
Corn, crude, tanks, works.....lb. .18 - —
foots, acid, 95%, tanks, dlvd. E. lb. .06¾ Nom.
raw, 50%, tanks, dlvd. I....lb. .03½ Nom.
refined, tanks, works.....lb. .20½- —
Cottonseed, crude, tanks, works..lb. .16½ .17
foots, acid 95%, tanks, dlvd. E. lb. .06½Nom.
raw, 50%, tanks, dlvd. E....lb. .03½ Nom.
deodorized, winterized, salad, dms., c.l..lb. .24 Nom.
L.c.l. .....lb. .25 Nom.
tankcars .....lb. .23 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, USP, cns. .....lb. 7.50 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb.11.00 -15.00
Degras (see D).
Dillseed, bots. .....lb. 4.25 - 7.00
Dillweed, bots., 25-lb. lots.....lb. 4.25 - 5.25
Dip (see D)
Erigeron, USP, cns.....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns., lb. 1.05 - 1.45
70-80%, cns. .....lb. .95 - 1.20
Fennel, sweet, cns.....lb. 3.05 - 4.55
Fir, Canada, cns.....lb. 2.25 - 2.75
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .16 - .17
15,000-30,000 units, dms., per million units. .17 - .18
30,000-60,000 units, dms., per million units. .19 - .20
60,000-100,000 units, dms., per million units. .25 - .26
over 100,000 units, dms., per million units. .27½- .28⅛
concentrates 200,000 or more A units per gram, dms., per million units. .34 - .38
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algeriau, cns.....lb.16.00 -17.00
Bourbon, cns.....lb.10.50 -24.50
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb. 9.00 -13.00
Grapefruit, Florida, cns.....lb. 2.25 - 2.30
California, bots., cns.....lb. 1.70 - 2.80

Oil, grease, common No. 1, dms., c.l., Chicago..lb. .17 - —
extra, winter strained, dms., c.l., Chicago..lb. .18 - —
prime, burning, dms., c.l., Chicago lb. .19 - —
Guaiacwood, cns. .....lb. 2.35 - 4.15
Hemlock, cns. .....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots.....lb. 6.00 -12.50
imported, NF.....lb. No stocks
Tar, USP (see Juniper tar).
Wood, tech., cns.....lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots.....lb.20.00 Nom.
Lavandin, cns.....lb. 1.80 - 3.75
Lavender flower, French, 38-42% ester..lb. 8.25 -10.50
30-32% ester .....lb. 5.00 - 8.00
Russian, 25-lb. .....lb.11.75 - —
Spike, Spanish, pure, cns.....lb. 1.50 - 2.25
tech., cns. .....lb. 1.75 - 2.75
Lemon, natural, USP, Calif., cns..lb. 3.25 - 3.60
Messina, cns.....lb. 3.40 - 4.50
terpeneless, bots.....lb.40.00 -50.00
Lemongrass, cns., dms.....lb. 1.50 - 2.30
Lignaloe wood, Mexican, cns....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns. .....lb. 3.50 - 5.20
Lime, distilled, Mexican, cns.....lb. 4.00 - 5.50
West Indian, cns.....lb. 5.35 - 6.70
expressed, West Indian, cns....lb. 9.50 -13.50
terpeneless, bots.....lb.35.00 -40.00
Linseed, raw, dms., c.l.....lb. .3040 Nom.
l.c.l. .....lb. .3080 Nom.
tankcars .....lb. .2940 Nom.
tankwagon .....lb. .2960 Nom.
Boiled linseed oil .007 higher than raw.
Linseed replacement, dms., c.l...lb. .25 Nom.
l.c.l. .....lb. .26 Nom.
tanks .....lb. .24 Nom.

Oil, lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p., tanks..gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - .19
145-155 vis. No 3, color, 10-25 pour, tanks..gal. .285 - —
Penna., W. cylinder, 600-680 flash, tanks .gal. .33 - —
600-650 steam refd., tanks.gal. .34 - —
neutral, 70° F. No. 3, color, 150 vis., 25 pour, tanks..gal. .26 - .36
200 vis., 25 pour, tanks.gal. .23 - .38
South Texas, neutral, pale, 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis, 4-6½ pour, tanks..gal. .11 - .12½
Mace, dist., cns., dms.....lb. 6.00 - 8.75
Mandarin, Brazilian, cns.....lb. 5.75 - 8.40
Italian, cns.....lb. 8.50 - —
Menhaden, crude, tanks, Balto....lb. No prices
refined, alkali, dms., L.c.l.....lb. .18½- —
kettle-bodied, dms., l.c.l.....lb. .20 - —
light-pressed, dms., l.c.l.....lb. .17 - —
tanks .....lb. .16 - —
Mineral, white (see Oil, white mineral).
Mustard, NF, synth., cns.....lb. 1.45 - 1.65
Seed exp., dms., c.l.....lb. .22 - .22½
Neatsfoot, 15°, ret. dms., works..lb. .48 Nom.
20° ret. dms., works.....lb. .46 Nom.
30°, ret. dms., works.....lb. .45 Nom.
Neroli, French, bots.....lb.140.00 -390.00
Haitian, bots.....lb.180.00 -200.00
Nutmeg, cns.....lb. 5.50 - 8.75
Ocotea cymbarum, dms.....lb. .75 - 1.15
Officica, liquid, dms., c.l.....lb. .26 - —
l.c.l. .....lb. .26½- —
tanks .....lb. .25 - —

Nitrocellulose, Spirit-soluble—Oil, Petitgrain

Oil, oleo, extra, tcs., Chicago.....lb .21 - —
Olibanum bots.....lb. 5.00 - 6.25
extra, fine .....lb 6.25 - 10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., dms.....gal. 3.25 - 3.50
imported, dms.....gal. 6.25 - 6.50
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l. lb No stocks
l.c.l. .....lb. No stocks
75% (62% fat), dms., c.l.....lb No stocks
l.c.l .....lb. No stocks
Orange, sweet, natural, dist., cns. lb .89 - 1.25
expressed, USP, Brazilian, cns lb 1.40 - 1.85
Calif., cns.....lb. 1.75 - 2.10
Florida, cns., dms.....lb. 1.40 - 1.85
Messina, coppers .....lb. 4.50 - 4.75
West Indian, cns. .....lb. 2.25 - 2.75
sesquiterpeneless, bots.....lb.80.00 -135.00
Origanum Spanish, cs.....lb. 3.25 - 3.50
Palm Niger, dms.....lb. No prices
Palmarosa, cns. .....lb. 6.25 - 9.00
Palmkernel, crude, bulk, c.l.f., N. Y. lb. No prices
Paraffin, pale, 100-110 vis. @ 100° F. tanks, works..gal. .10 - —
Patchouli, imp., cns.....lb.15.00 -45.00
Peanut, crude, tanks, works.....lb. .17 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .06½ Nom.
raw, 50%, tanks, dlvd. E....lb. .03½ Nom.
refined, tanks, mills.....lb. .22 Nom.
Pennyroyal, USP, dom., dms., cns. lb. 3.82 - 4.75
import, cns.....lb. 3.80 - 5.00
Peppermint, natural, dms.....lb. 7.70 - 8.75
redist., USP, dms.....lb 8.40 - 9.00
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns.....lb. 3.25 - 4.80

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Oil, Pimento Berry—Pentachlorophenol

Oil, pimento berry, dms.....lb. 4.25 - 6.50
Leaf, cns.....lb. 1.95 - 3.25
Pine, dest. dist., dms. incl. c.l., works, South..gal. .70 - —
l.c.l., works, East.....gal. .79 - —
tanks, works, South.....gal. .61 - —
steam-dist., dms., ex whse., East..lb. .11 - —
Pineneedle, Canadian, 25-lb.....lb. 2.20 - —
Siberian, cns.....lb. 3.05 - 3.75
Swiss, 25-lb.....lb. 4.50 - —
Putty, petroleum, heavy, dms...gal. .18 - —
tankwagon.....gal. .13½- —
light, dms.....gal. .16½- —
tankwagon.....gal .12½- —
Rapeseed, dms., c.l.....lb. No prices
Red, single dist., ret. dms.....lb. .17¾- .18¾
tanks.....lb. .16½- —
double dist., ret. dms.....lb. .20¼- .21¼
tanks.....lb. .19 - —
Rose, natural, coppers.....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. 1.00 - 1.50
USP, cns., dms.....lb. 1.20 - 1.60
Rosin, 1st rectified, dms.....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .78 - —
Rue, bots.....lb. 4.65 - 5.50
Sage, Dalmatian, cns.....lb. 4.50 - 6.50
Spanish, cns.....lb. 2.20 - 3.50
Sandalwood, NF, Mysore, cns.....lb. 13.75 -22.50
Sardine, crude, tanks, Pac. coast, lb. No prices
refined, alkali, dms., l.c.l.....lb. .18½- —
kettle-bodied, dms., l.c.l.....lb. .20 - —
light-pressed, dms., l.c.l.....lb. .17 - —
tanks.....lb. .16 - —
Sassafras, artificial.....lb. .65 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms..lb. 1.90 - 2.30
Savin, cns.....lb. 5.75 - 9.00

Oil, savory, cns.....lb. 8.00 - —
Seal, No. 1, tanks, U. S. ports...lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works..gal. .2185- —
l.c.l., works.....gal. .25 - .29
tanks, works.....gal. .15 - .16
Snakeroot, Canada, cns.....lb. 17.50 -27.00
Soybean, crude, tanks.....lb. .19 - .20
foots, acid, 95%, tanks, dlvd. E lb. 06½ Nom.
raw, 50%, tanks, dlvd. E....lb. 03¼- 03½
refined, alkali, dms., c.l.....lb. .2283 Nom.
l.c.l.....lb. .2323 Nom.
tanks.....lb. .2183 Nom.
clarified, dms., c.l.....lb. .2213 Nom.
l.c.l.....lb. .2250 Nom.
tanks.....lb. .2113 Nom.
winterized, ref., tankcars.....lb. .18 Nom.
Spearmint, dms.....lb. 6.75 -11.00
Sperm, bleached, 38°, dms.....lb. .417 - —
natural, 45°, dms.....lb. .297 - —
Spruce, cns., dms.....lb. 2.40 - 2.65
Sunflower-seed imp., refined, tanks, lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, Northern, cns.....lb. 4.50 - 8.00
Southern, cns.....lb. 2.50 - 3.25
Tall, crude, tanks, works.....ton. 60.00 Nom.
refined, dms., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- —
tanks, works.....lb. .06¾- —
Tallow, acidless, dms., Chicago..lb. .18 - .19
Tansy, cns.....lb. 11.00 -14.00
Tar, pine, crude, dms. incl. c.l., works, South..gal. .39½- —
l.c.l., works, South.....gal. .41½- —
tanks, works, South.....gal. .30½- —
rectified, USP, l.c.l., dms. incl. wks., South..gal. .00 - —

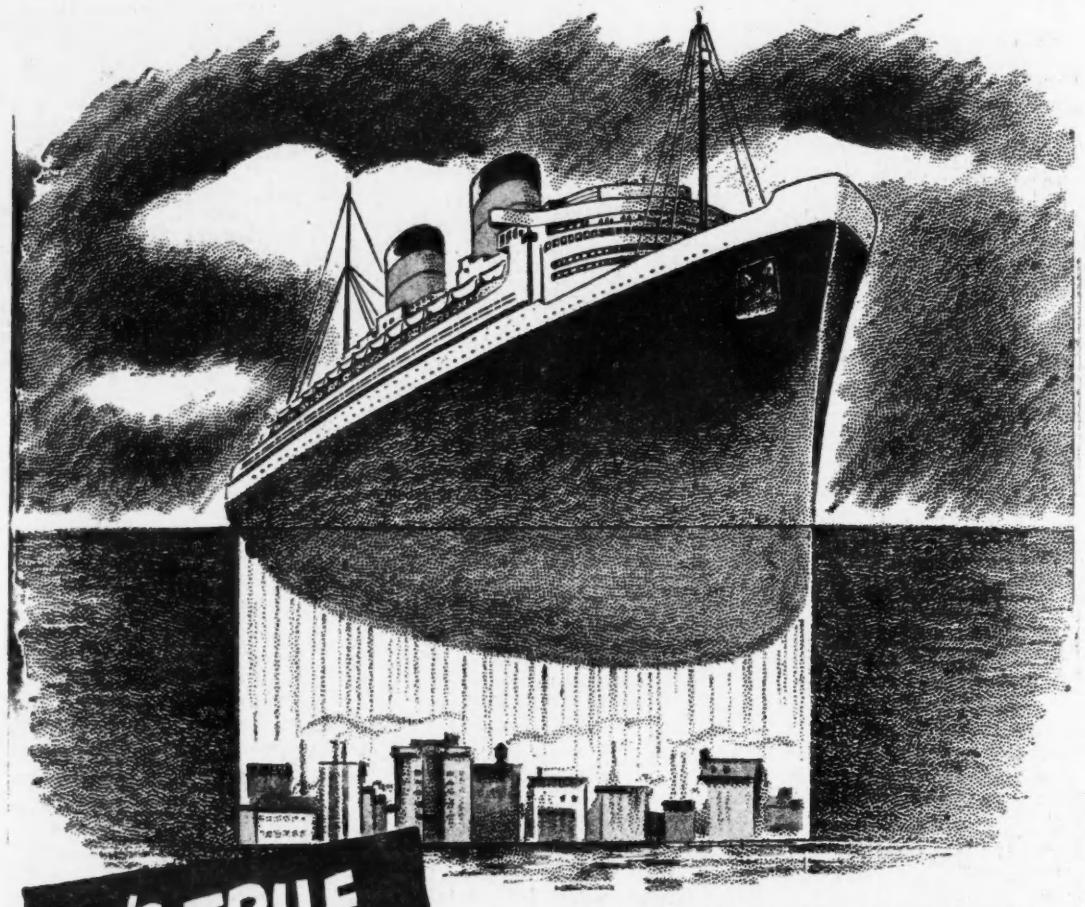
Oil, tar acid (see T).
Thyme, NF, red, cns.....lb. 2.50 - 3.25
white, cns.....lb. 2.85 - 3.80
technical, white, cns.....lb. .85 - 1.00
Tung, dms., c.l.....lb. .25 - .25¼
l.c.l.....lb. .25½- .25¾
tanks.....lb. .23¾- .24
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF cns., dms..lb. .35 - .50
Vetiver, Bourbon, cns.....lb. 28.00 -38.00
Haitian.....lb. 28.50 -38.00
Whale, ref., natural, dms.....lb. No stocks
Winter-bleached, dms.....lb. No stocks
Wheat germ, dms.....gal. 10.00 -13.50
White mineral, tech., 50 vis., non-ret. dms., c.l., San Francisco..gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
50-60 vis. dms., c.l., N.Y.....gal. .44½- —
l.c.l., N.Y.....gal. .48 - .49
65-75 vis., dms., c.l., N.Y.....gal. .47 - —
l.c.l., N.Y.....gal. .51 - .52
70 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
USP, 80-90 vis., dms., c.l., N.Y..gal. .51 - —
l.c.l., N.Y.....gal. .55 - .56
85 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
100 vis., non-ret. dms., c.l., S.F. gal. .59 - —
l.c.l., S.F.....gal. .61 - .64
125-135 vis., dms., c.l., N.Y.....gal. .63 - —
l.c.l., N.Y.....gal. .67 - .68
145 vis., non-ret. dms., c.l., S.F. gal. .68 - —
l.c.l., S.F.....gal. .70 - .73
145-155 vis., dms., c.l., N.Y..gal. .65 - —
l.c.l., N.Y.....gal. .69 - .70
175-185 vis., dms., c.l., N.Y..gal. .66 - —
l.c.l., N.Y.....gal. .68 - .73

Oil, white, mineral, USP, 180 vis., non-ret. dms., c.l., S.F..gal. .70 - —
l.c.l., S.F.....gal. .72 - .75
200-210 vis., dms., c.l., N.Y..gal. .72 - —
l.c.l., N.Y.....gal. .76 - .77
340-350 vis., dms., c.l., N.Y..gal. .80 - —
l.c.l., N.Y.....gal. .89 - .85
340 vis., non-ret. dms., c.l., S.F. gal. .88 - —
l.c.l., S.F.....gal. .85 - .88
Wintergreen, natural, Northern, cns. lb. 6.35 -17.25
Southern, cns.....lb. 3.65 - 6.00
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.25 - 5.50
Wormwood, cns.....lb. 9.75 -13.50
Ylang-ylang, Bourbon, extra, bots.lb. 14.00 -25.00
first, bots.....lb. 12.50 -14.50
second, bots.....lb. 8.00 - 9.50
third, bots.....lb. 5.00 - 7.50
Oleostearin, tcs.....lb. .18 Nom.
Olivine, aggregate, c.l., mines....ton 7.00 - 9.50
crushed, 8-mesh, bulk, c.l., works, ton. 10.00 - —
paper bgs., c.l., works.....ton. 12.00 - —
lumps, bulk, c.l., works.....ton. 7.00 - —
Opium, USP, cns.....lb. 21.50 -21.55
gran., USP, cns.....lb. 22.70 -20.95
powd., USP, cns.....lb. 22.70 -20.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies.....lb. 1.00 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts....lb. .26 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Orange, dinitroanilin toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .39 - —
Orthonitroanilin toner, bbls., kgs., works..lb. .30 - —
Persian, bbls.....lb. .30 - .45
Orange flowers, bls.....lb. .46 - .48
Orange mineral, American, bbls., 5 tons, ship't point, frt. alld....lb. 20½- —
smaller lots, bbls., same basis, lb. .21 - —
Orange peel, bitter, Haitian, bls..lb. .13 - .14
Sweet, bls.....lb. .14 - .16
Oregano, Italian, bgs.....lb. .27 - .27½
Mexican, bgs.....lb. .16 - .16½
Portuguese, bgs.....lb. .15½- .20
Orris root, Florentine, bls.....lb. .34 - .35
powdered, bbls., bxs.....lb. .36 - .37
Verona, bls.....lb. .22 - .23
powdered, bbls., bxs.....lb. .24 - .26
Orthoaminobiphenyl dms., c.l., works lb. .24 - —
l.c.l., same basis.....lb. .23½- —
tanks, same basis.....lb. .22 - —
Orthoamylphenol, dms., l.c.l., works, lb. .37 - —
Orthoanisidin, bbls.....lb. .70 - —
Orthochloroanilin, dms., 10,000 lbs. or more..lb. .53 - —
smaller lots.....lb. .55 - .60
Orthochlorophenol, dms.....lb. .37 - —
Orthocresol, pure, 30°, dms., c.l., works..lb. .26½- —
l.c.l., works.....lb. .27 - —
tech., 29°-30°, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .25½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies..lb. 07½- .08
l.c.l., same basis.....lb. .09½- .10¼
tanks, same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroanilin, dms.....lb. .53 - .55
Orthonitrochlorobenzene, dms.....lb. .15 - .18
Orthonitrobiphenyl; tech., dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13 - —
Orthonitroparachlorophenol, cns...lb. .75 - —
Orthonitrotoluene, dms.....lb. .08 - .09
Orthophenetidin, dms.....lb. .90 - —
Orthotoluidin, dms.....lb. .18 - .21
Osage orange crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .15 - —
Ouabaine, USP, bots.....gram. 5.00 - 6.00
Oxyquinolin sulphate, cns., 100 lbs., works..lb. 6.40 - —
smaller lots, works.....lb. 6.55 - 7.40

P

Papain, powd., cs.....lb. 6.25 - 7.25
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots..oz. 7.00 - —
smaller lots.....oz. 7.25 - 7.60
Sulphate, cns.....oz. 7.10 - 7.35
Paprika, Chilean, bgs.....lb. 31½ Nom.
Portuguese, bgs.....lb. .40 - .41
Spanish, bgs.....lb. .42½- .43
Para-anisidin, dms., works.....lb. .75 - —
Parachlorophenol, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .27½- .29
Parachloroanilin, dms., frt. alld E Miss. lb. .65 - —
Paracresol, 98%, dms., works.....lb. .41 - .65
Paracymene, dms., c.l., works.....lb. .1595- —
l.c.l., works.....lb. .1645- —
tanks, works.....lb. .1545- —
Paradichlorobenzene, dms., c.l., works, lb. .12½- —
l.c.l., same basis.....lb. .14 - —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery..lb. .065 - .08
fully ref'd, slabs, 117-119 ASTM, loose, c.l., refy..lb. 05 - —
123-125 ASTM, loose, c.l., refy..lb. .0685- —
125-127 ASTM, loose, c.l., refy..lb. .0715- —
128-130 ASTM, loose, c.l., refy..lb. .0740- —
130-132 ASTM, loose, c.l., refy..lb. .0770- —
133-135 ASTM, loose, c.l., refy..lb. .0795- —
135-137 ASTM, loose, c.l., refy..lb. .0860- —
Prices in bags ½c. lb. higher; l.c.l. prices 1½c. lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works..lb. .21 - —
smaller lots, works.....lb. .22 - —
Paraldehyde, tech. 98%, 55 and 110-gal. dms., l.c.l., works..lb. .13 - —
10 gal. dms., l.c.l., works.....lb. .16 - —
USP, cbys.....lb. .49 - .62
Paranitroanilin, kgs., works.....lb. .41 - .43
Paranitrochlorobenzene, kgs., works.lb. .15 - —
Paranitrophenol, kgs., works, frt. equald..lb. .35 - —
Paranitrotoluene, kgs., works.....lb. .30 - —
Paraphenylenediamine, tech., kgs., works..lb. 1.25 - —
Paratoluenesulphonamide, bbls., works, lb. .70 - —
Paratoluidin, bbls., works.....lb. .44 - .55
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E. lb. .31 - —
l.c.l., same basis.....lb. .32 - .38
Passion flower herb, bls.....lb. .35 - .40
Patchouli leaves, bls.....lb. .38 - .40
Pectin, citrous, bbls.....lb. 1.25 - —
Penicillin, amorph., calcium, bulk, 1,000,000,000 units.. 100,000 units. .19 - —
sodium, bots.....100,000 units. .25 - —
cryst., sodium, bots....100,000 units. .27 - —
bulk, 1,000,000,000 units..... 100,000 units. .21 - —
Pennyroyal leaves, bls.....lb. .24 - .25
Pentachlorophenol, dms., works....lb. .20 - .28



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STANDARD OIL COMPANY OF PENNSYLVANIA
Philadelphia, Pa.

COLONIAL BEACON OIL COMPANY
Boston, Mass.—New York, N. Y.

IT'S TRUE OF ESSO SOLVENTS

THE TOTAL GALLONAGE OF ESSO SOLVENTS SOLD LAST YEAR WOULD FLOAT ALMOST 5 SHIPS THE SIZE OF THE QUEEN ELIZABETH!

Careful manufacturing control is the important factor in the production of Esso Petroleum Solvents. In this way we maintain the correct combination of physical attributes in any specific solvent. Hundreds of industries depend on the constant suitability and uniformity in solvents that the Esso trademark assures. See your Esso Representative next time you order.

Pentaerythritol, tech., bbls., c.l., works	lb.	.32	—
l.c.l., works	lb.	.34	.36
Pentane, 28°-38° C., industrial, dms., c.l., group 3	gal.	.11	.14
l.c.l., dms., group 3	gal.	.17	.30
tanks, group 3	gal.	.07½	.08
Pepper, black, bgs.	lb.	.40	.41
futures, bgs.	lb.	.37	.38
Red, capsicum, Louisiana longs, bgs., shipment point	lb.	.20	.25
sports, bgs.	lb.	.24	Nom.
Mombasa, bgs.	lb.	.38	.39
Niger, bgs.	lb.	.20½	.21
Sierra Leone, futures	lb.	.23	.23½
Chillies, Haitian, bgs.	lb.	No stocks	
Mexican, long	lb.	No stocks	
White, bgs.	lb.	.54	.55
Peppermint, USP, dom., bls.	lb.	.75	.80
imported, bls.	lb.	.80	.85
Perchloroethylene, dms., c.l., zone 1, works, frt. alld.	lb.	.10¾	—
zone 2, same basis	lb.	.11¼	—
zone 3, same basis	lb.	.11¾	—
zone 4, same basis	lb.	.11¾	—
l.c.l., zone 1, same basis	lb.	.11½	—
zone 2, same basis	lb.	.12	—
zone 3, same basis	lb.	.12½	—
zone 4, same basis	lb.	.12½	—
tanks, zone 1, same basis	lb.	.10¾	—
zone 2, same basis	lb.	.10¾	—
zone 3, same basis	lb.	.11¼	—
zone 4, same basis	lb.	.11¼	—

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ariz., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.	lb.	.95	1.05
Petrolatum, tech., dark, bbls., c.l., group 3	lb.	.021	—
Pennsylvania refy.	lb.	.047	—
golden topaz, bbls., c.l.	lb.	.032	—
l.c.l.	lb.	.036	—
red, veterinary, bbls., c.l.	lb.	.024	—
l.c.l.	lb.	.028	—
USP, amber, not-ret. dms., c.l.	lb.	.04½	—
Pennsylvania refy.	lb.	.04¾	—
l.c.l.	lb.	.05½	—
California	lb.	.08	—
cream, c.l., dms.	lb.	.06¾	—
l.c.l.	lb.	.07¼	.08
extra amber, dms., c.l.	lb.	.05¼	—
l.c.l.	lb.	.05¾	—
white, lily, dms., c.l.	lb.	.06¾	.07
l.c.l.	lb.	.08	—
white, snow, dms., c.l.	lb.	.07¼	—
Pennsylvania refy.	lb.	.08¾	—
l.c.l.	lb.	.09¾	—
California	lb.	.11¾	—
soft, dms., c.l.	lb.	.05¾	—
Pennsylvania refy.	lb.	.07	—
l.c.l.	lb.	.07½	.07¾
California	lb.	.10¾	—
yellow, soft, dms., c.l.	lb.	.04¾	—
Pennsylvania refy.	lb.	.04¾	—
l.c.l.	lb.	.05¾	—
California	lb.	.08	—
Petroleum, crude, bulk, at wells, California, heavy grades	bbl.	1.53	2.34
Illinois	bbl.	1.95	2.07
Kentucky, Union county	bbl.	1.72	2.13
Louisiana-Arkansas	bbl.	1.46	2.18
Montana	bbl.	1.25	2.05
Oklahoma-Kansas	bbl.	1.55	1.75
Pennsylvania, lower field	bbl.	4.20	4.50
Upper field	bbl.	2.69	4.35
Texas, East	bbl.	1.95	—
Gulf coast	bbl.	1.86	2.16
North, North-Central	bbl.	1.53	1.95
Panhandle	bbl.	1.53	1.95
West	bbl.	1.25	1.95
Wyoming	bbl.	1.53	1.95
Ether, laboratory, 30°-60° C. cns., dlvd. E.	gal.	.55	—
dms., c.l., group 3	gal.	.16	—
l.c.l., same basis	gal.	.20	—
35°-60° C. 10-gal. cns., dlvd. E.	gal.	.55	—
dms., c.l., Group 3	gal.	.16	—
l.c.l., same basis	gal.	.20	—
40°-75° C. 10-gal. cns., dlvd. E.	gal.	.55	—
dms., c.l., Group 3	gal.	.16	—
l.c.l., same basis	gal.	.20	—
Fuel oil, bunker C (No. 6), California, heavy, tanks, refinery	bbl.	1.50	1.55
light, tanks, refinery	bbl.	1.70	1.75
Eastern, tanks, Albany, N. Y.	bbl.	2.42	—
Baltimore, Md.	bbl.	2.22	2.32
Boston, Mass.	bbl.	2.26½	2.36½
Charleston, S. C.	bbl.	2.13	—
Jacksonville, Fla.	bbl.	2.08	2.18
New York, N. Y.	bbl.	2.22	2.32
Norfolk, Va.	bbl.	2.18	2.28
Philadelphia, Pa.	bbl.	2.22	2.45
Portland, Me.	bbl.	2.26½	2.36½
Providence, R. I.	bbl.	2.23½	2.33½
Savannah, Ga.	bbl.	2.13	2.23
Oklahoma, tanks, refinery	bbl.	1.64	2.50
Diesel, tanks, refinery, California	gal.	.074	.075
Pennsylvania	gal.	.075	.078
Furnace, tanks refinery, Arkansas, No. 2	gal.	.0663	—
No. 3	gal.	.0638	—
Bayonne, N. J., No. 2	gal.	.072	—
Group 3, No. 1	gal.	.0675	.0700
No. 2, straw	gal.	.0662½	.0675
No. 3	gal.	.0625	.0650
Oklahoma, No. 1, p.w.	gal.	.0687	.0785
No. 1, straw	gal.	.0700	—
No. 2, straw	gal.	.0650	.0788
No. 3	gal.	.055	—
range	gal.	.0700	.07125
Pennsylvania, No. 1	lb.	.0875	.0990
No. 2	gal.	.0827	.0900
No. 3	gal.	.0850	.0900
Lacquer diluent, California, 100 l.h.n., 200 c.p., tanks, dlvd. Los Angeles	gal.	.118	—
Portland, Ore.	gal.	.128	—
San Francisco	gal.	.11½	—
Seattle, Wash.	gal.	.128	—
East coast, tanks, N. J. and N. Y. refinery	gal.	.13	.13½
Group 3, benzol-type, tanks, refinery	gal.	.0987½	.1062½
toluol-type, tanks, refinery	gal.	.0937½	.1012½
Mineral spirits, California, tanks, San Francisco, 170-250 b.r.	gal.	.123	—
205-290 b.r.	gal.	.123	—
244-362 b.r.	gal.	.123	—
307-560 b.r.	gal.	.113	—
312-402 b.r.	gal.	.113	—
362-458 b.r.	gal.	.113	—
East coast, tanks, N. J., N. Y. refinery	gal.	.12½	.13
tankwagon, Baltimore	gal.	.15	—
Boston	gal.	.13½	.14
Buffalo	gal.	.14	.14¼
Camden, N. J.	gal.	.12½	—
Chicago	gal.	.159	—
Detroit	gal.	.182	—
Kansas City, Mo.	gal.	.15½	—
Lancaster, Pa.	gal.	.13½	—
Newark	gal.	.12½	—
New York	gal.	.12½	.13
Philadelphia	gal.	.12½	—
Pittsburgh	gal.	.14	—
Providence	gal.	.14	—
Petroleum, mineral spirits, tankwagon, Rochester	gal.	.15	—
St. Louis	gal.	.161	—
Syracuse	gal.	.16	.16¼
Washington, D. C.	gal.	15	—
Group 3, tanks, refinery	gal.	.0812½	.0862½
Gulf coast, tanks, refinery	gal.	.07¾	—
Naphtha, cleaners, California, tanks, San Francisco	gal.	.123	—
East coast, tanks, N. J., N. Y., refinery, gal.		11	.11½
tankwagon, Newark	gal.	.06½	—
Chicago	gal.	.14¼	—
Detroit	gal.	.15½	—
New York	gal.	12	.13
Philadelphia	gal.	.125	—
Group 3, tanks	gal.	.0912½	.0962½
tankwagons, St. Louis	gal.	.1470	—
High-flash, 140° F, group 3 refinery, tanks, gal.		.12	.12½
High-solvency, tanks, refinery, N. J., 200-235 b.r., 98-130 mixed anlin pt.	gal.	.18	.18½
78 m.a.p.	gal.	20	—
270-370 b.r., 78-81 m.a.p. gal.		21	—
66 m.a.p.	gal.	23	—
305-400 b.r., 78-85 m.a.p. gal.		.21¼	.21½
340-440 b.r., 90 m.a.p.	gal.	21½	—
78 m.a.p.	gal.	25½	—
V.M.&P., at refinery, California, 46.5, 254-330 b.r., tanks, El Segundo	gal.	.12	—
Richmond	gal.	.12½	—
Portland, Ore., Seattle, Wash. gal.		.12	—
64-77, 190-310 b.r., tanks, Los Angeles	gal.	.11	—
San Francisco	gal.	.11½	—
Portland, Seattle	gal.	.12	—
Petroleum, naphtha, V.M.&P., at refy., East coast, N. J., N. Y., tanks, gal.		.12½	.13
Group 3, tanks	gal.	.0912½	.0962½
Gulf coast, tanks, New Orleans	gal.	10	—
tankwagon, Boston	gal.	.145	.15
Chicago	gal.	162	—
Detroit	gal.	174	—
Milwaukee	gal.	178	—
Minneapolis	gal.	176	—
Newark	gal.	14	—
New York	gal.	135	14
Philadelphia	gal.	14	—
Pittsburgh	gal.	15	—
St. Louis	gal.	171	—
Solvent, rubber, at refinery California, tanks, San Francisco, gal.		11½	—
East coast, N. J., N. Y., tanks, gal.		12½	.13
Group 3, tanks	gal.	.0887½	.0962½
Stoddard (C.S. 8-38), at refinery, California tanks, San Francisco, gal.		.12	—
East coast, N. J., N. Y., tanks, gal.		.12½	.13
Group 3, tanks	gal.	.0862½	.0912½
Pennsylvania, western, tanks gal.		.0950	.0975
tankwagon, Boston	gal.	13	—
Chicago	gal.	14½	—
Detroit	gal.	16½	—
Milwaukee	gal.	15½	—
Minneapolis	gal.	154	—
Newark	gal.	12½	—
New York	gal.	12½	.13
Philadelphia	gal.	12½	—
Pittsburgh	gal.	13	—
Pittsburgh	gal.	14	—
St. Louis	gal.	16	—
Syracuse	gal.	16	16½
Petroleum sulphonate, 68% sulphonic content, ret. dms., c.l., works.	lb.	.09¾	—
l.c.l., works	lb.	.09¾	.10¾
50% sulphonic content, ret. dms., c.l., works	lb.	.09¾	—
l.c.l., works	lb.	.09¾	.10¾
tanks, works	lb.	.09½	—
Phenobarbital, dms., 100 lbs.	lb.	3.50	4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald.	lb.	.12	.12¾
l.c.l., same basis	lb.	.12¾	.13¼
tanks, same basis	lb.	.11	.11¾
82-84% (cresol, 16-18%), dms., c.l., same basis	lb.	.12½	.13
l.c.l., same basis	lb.	.13¼	.13¾
tanks, same basis	lb.	.11½	.12
USP, dms., c.l., same basis	lb.	.11½	.12¾
l.c.l., same basis	lb.	.12¾	.13
tanks, same basis	lb.	.10½	.11½
Phenolphthalein, USP, bbls., dms., 2,000 lbs.	lb.	.85	—
smaller lots	lb.	.87	.92
yellow, fib. dms., 2,000 lbs.	lb.	.85	—
smaller lots	lb.	.87	.92
Phenothiazin, NF, fib. dms., ton lots, works	lb.	.49	—
smaller lots, works	lb.	.54	—
Phenylacetaldehyde solution, 50%, bots.	lb.	2.35	2.70
pure, bots.	lb.	4.00	4.40
Phenylethyl acetate, dms.	lb.	2.15	2.70
Phenylethylphenyl acetate, bots.	lb.	4.50	6.00
Phenylhydrazin base, CP, bots.	lb.	4.55	—
Hydrochloride, CP, bots., works	lb.	7.10	—
commercial, kgs., works	lb.	1.75	—
Phloroglucinol, CP, fib. dms.	lb.	13.75	14.75
tech., fib. dms.	lb.	10.00	12.50
Phosgene, 150 lb. cyls., works	lb.	.30½	.33
10-lb. cyls., works	lb.	1.00	—
Phosphate, defluorinated (see under D.)			

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Phosphate Rock—Pyroxylin Shavings

Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-68%, b.p.l., bulk, c.l., car at mine .long ton. 3.34 - 3.49
70%-68%, b.p.l., c.l., same basis .long ton. 3.74 - 3.89
72%-70%, b.p.l., c.l., same basis..long ton. 4.34 - 4.49
75%-74%, b.p.l., c.l., same basis. long ton. 5.34 - 5.49
77%-76%, b.p.l., c.l., same basis..long ton. 6.34 - 6.49

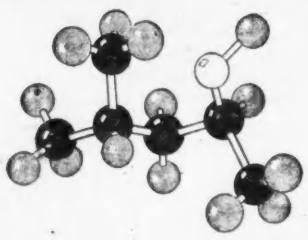
Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.

finely ground 65.5% b.p.l., basis 30% P_2O_5 minimum.. short ton 5.00 - —
68%, b.p.l., basis 31% P_2O_5 minimum. short ton. 5.20 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton. 5.55 - —
Tennessee, brown, run-of-mine, unground, 70-68% b.p.l., 5½% i. & a., same basis..long ton. 5.50 - —
72%-70%, b.p.l., 5½% i. & a., same basis..long ton. 6.00 - —
28% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis..... long ton. 5.35 - —
finely ground, 31% P_2O_5, same basis..short ton. 5.45 - —
32% P_2O_5, same basis..... short ton. 5.70 - —
33% P_2O_5, same basis..... short ton. 6.20 - —

Phosphorus, red, amorphous, cs.....lb. .33 - .35
tins, export.....lb. .40 - .45
Yellow, cns. .....lb. .25 - .27
dms., c.l. .....lb. .22 -
Oxychloride, dms., works.....lb. .10½- .13¾
Pentoxide, dms., c.l., works....lb. .12 -
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs., works...lb. .26 - .27
Trichloride, dms., c.l., works.....lb. .10½ -
l.c.l., works.....lb. 12¼- .13¾
Phthalamide, bbls., works..... lb. .35 - .40
kgs., works.....lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald..lb. 11½- 17½
l.c.l., same basis.....lb. .15½- .18½
Pichi leaves, bgs .....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots. .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .22½- .24
Pinetar, retort dms. incl., c.l., works, South..gal. .39½- —
l.c.l., same basis.....gal. .41½- —
whse., N.Y.C. .....gal. .50½- —
tanks, works, South.....gal. .30½- —
Pinkroot, bls. .....oz. 1.10 - 1.15
Piperazine hexahydrate, bots.....lb. 11.50 -12.50
Pitch, coaltar, 150° m.p., bbls., c.l., works..ton. 25.25 - —
l.c.l., works .....ton. 28.25 - —
Cottonseed, dms., works.....lb. 10½- 10¾
Hardwood, paper bgs., works....lb. .04 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East....100 lbs. 6.90 - —
Soybean, dms., works..... lb. 10¼- 10½
Plaster of paris (see Gypsum).
Podophyllin, dms. .....lb. 13.50 -13.75
Pokeroot, bls. .....lb. .21 - .22
Polystyrene, plain colors, bgs., 30,000 lbs., works, frt. alld..lb. .31½- —
20,000 lbs., same basis.....lb. .32½- —
smaller lots, same basis.....lb. .33½- .54½
Water-clear, polystyrene, 7c.-18c. per lb. less than plain colors, depending on quantity; plain colors, dms., ½c. higher.
Pomegranate root bark, bgs.....lb. .75 - .76
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs.....lb. .19 - .19½
Danish, bgs. .....lb. .20 - .20½
Dutch, bgs.....lb. .22½- .23
futures, bgs.....lb. .21 - .21½
Turkish, bgs..... lb. .21 Nom.
Potash, caustic, low chloride, flake, 90%, dms., c.l., works..100 lbs. 9.50 - —
l.c.l., works. .....100 lbs. 10.25 - —
liquid, dms., c.l., works...100 lbs. 8.75 - —
l.c.l., works.....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works...100 lbs. 8.75 - —
l.c.l., works.....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07½- —
l.c.l., works.....lb. 0.08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03 7/16- —
l.c.l., same basis.....lb. .03⅝- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms. c.l., works.lb. .06¾- —
l.c.l. .....lb. .07½- —
Potassium abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .32 - .34
Bicarbonate, USP, gran., dms...lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works.....lb. .11½- —
l.c.l., works.....lb. .11¾- 11¾
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works..ton. 200.00 - —
ton lots, works.....ton. 218.50 - —
less ton lots works.....ton. 225.50 - —
Bromide, USP, cryst., gran., bbls., kgs..lb. .28 - —
Carbonate, tech., calcined, bbls., c.l., works..lb. .07½- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- —
dms., l.c.l., works.....lb. .06½- —
USP, gran., bbls., dms.....lb. .14 - .19
powd., bbls., dms.....lb. .20 - .25
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., works..lb. .08½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb. .12 - —
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms..lb. .35½- .40½
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cbys. lb. 2.30 - —
Guaiacolsulphonate, NF, dms....lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, sticks, dms.....lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms .....lb. 1.95 - 1.98
Manure salt, 22% K_2O, bulk, mines unit ton. .20 - —
25% K_2O, bulk, mines..unit ton. .21 - —
Metabisulphite, gran. bbls.....lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M..unit ton. .37½- —
Trona, Cal.....unit ton. .45½- —
Nitrate (see Saltpeter)
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .12½- .14
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .25
Potassium persulphate, dms., c.l., works..lb. .16 - —
l.c.l., works.....lb. .20 - —
Phosphate, tetrabasic, bbls., works.lb. .13 - .13½
Prussiate, red, kgs .....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be ret. drums, c.l., works..100 lbs. 4.25 - —
Silicate, solut., 29° Be, dms., l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works. 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst., bbls.....lb. .30½- .33½
powd., bbls. .....lb. .14½- 17
tech., dom., bulk, basis 90-95% K_2O, min. 90% ex vessel Atlantic or Gulf ports...ton. 36.25 - —
West coast ports.....ton. 39.25 - —
Sulphocyanide, cryst., N.F., dms. lb. .62 - .70
Thiocyanate (see sulphocyanide).
Xanthate, dms., c.l. .....lb. .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4 18-50% MgO, ex vessel, ports..ton. 26.00 - —
Potassium-sodium ferricyanide, kgs., works lb. .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium oxalate, bbls., dms .lb. .50 - .55
Prickly ash bark, bls.....lb. .33 - .34
Berries, bgs. .....lb. .20 - .21
Prince's pine herb, bls.....lb. .55 - .60
Procaine hydrochloride, cns., 100-lb. lots..lb. 4.90 - 5.00
Propane, commercial grade, tanks, group 3 ..gal. .03½- —
Propylene oxide, dms., c.l., frt. equald..lb. .19 - —
l.c.l., same basis.....lb. .20 - .21
tanks, frt. equald.....lb. .17½- —
Propylene dichloride, dms., c.l.....lb. .08½- —
l.c.l. .....lb. .09½- —
smaller containers.....lb. .12½- —
tanks .....lb. .07 - —
Propyleneglycol, dms., c.l., frt. alld. E. lb. .16 - —
l.c.l., same basis.....lb. .16½- .18
tanks, same basis.....lb. .14½- —
Propylthiouracil, bots., works.....kilo. 50.00 - —
Psyllium seed (see Fleaseed).
Pulsatilla herb, bls.....lb. .60 - .65
Pumice, dom., grd., coarse, 0, 1, 1½, 2, 3, bgs., ton..lb. .03⅝- .04
Chicago .....lb. .04½- —
smaller lots.....lb. .03⅝- .04½
fine, bgs., ton.....lb. .03⅝- —
smaller lots.....lb. .03½- .04
Italian, silk-screen, fine, bgs., ton..lb. .04 - —
coarse, bgs., ton.....lb. .05½- —
sun-dried, fine, bgs., ton.....lb. .03 - —
coarse, bgs., ton.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed bgs .....lb. .27 - .30
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works.lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works..gal. 6.50 - —
regular base, dms., works..gal. 6.95 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc, odorless base, bbls., works..gal. 10.00 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., same basis..lb. .60 - .65
Pyridoxin hydrochloride, 100-gram lots, kilo. 650.00 - —
Pyrites, Spanish, c.i.f. Atl ports, long-ton. 8.00 -10.00
Pyrocatechin (see Catechol).
Pyronate, dms., c.l., dlvd. E. of Miss. gal. .70 - —
l.c.l., works.....gal. .70 - —
tanks, dlvd., E. of Miss.....gal. .60 - —
Pyronate prices W. of Miss. 3c. per gal. higher.
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton. 11.00 -12.00
325 mesh, bulk, c.l., mines....ton. 14.00 - —
No. 3, 200 mesh, bulk, c.l., mines. ton. 9.00 - —
325 mesh, bulk, c.l., mines....ton. 11.00 - —
Pyrophyllite in paper bags, $2.00-$2.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works...lb. .12 - —
white, china, ivory, cs., works. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, colorless, cs., works. lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works. lb. .16 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

From SHELL CHEMICAL

METHYL ISOBUTYL CARBINOL
(Methyl Amyl Alcohol)



A colorless stable alcohol with a pleasant odor.
Available in tank cars and drums

SPECIFICATIONS	
Purity	Min. 97.5% by wt.
Spec. Grav. 20° 20° C	0.807-0.809
Color	Max. 15 plat. cobalt (Hazen) standard
Water	Miscible without turbidity with 19 volumes of 60° Bé gasoline at 20° C
Acidity (other than carbon dioxide)	Max. .005% by wt. calculated as acetic acid
Distillation Range	Below 130° C: None Above 133° C: None

A request on your business letterhead will bring further technical information on Methyl Isobutyl Carbinol.

Among the many other Shell Chemical products are: Acetone, Methyl Isobutyl Ketone, Methyl Ethyl Ketone, Cyclohexane and Acrolein.

Here is a newly-developed solvent that can help *improve* surface coating formulations.

For example, high-purity MIBC is already contributing to better surface coatings manufactured by leading producers of industrial finishes:

Manufacturers of *nitrocellulose lacquers* find that MIBC improves diluent tolerance, viscosity characteristics, blush resistance and film flow.

In the formulation of *synthetic baking finishes* of the phenolic, alkyd or urea-melamine type, incorporation of MIBC yields solutions of low viscosity — promotes flow-out and prevents bubbling during baking operations.

OTHER IMPORTANT USERS OF **MIBC** INCLUDE

THE MINING INDUSTRY: In conjunction with other frothing agents, MIBC improves metallurgical yields and renders recovery from low-grade ores by flotation processes more economical.

THE CHEMICAL INDUSTRIES: Undergoing the reactions typical of a secondary alcohol, MIBC is a raw material for the manufacture of resins, plasticizers, detergents, lubricating oil additives and xanthates as collectors in ore flotation.

MANUFACTURERS OF BRAKE FLUIDS AND CLEANING COMPOUNDS: Its solvent power for a wide variety of materials has established MIBC as a desirable medium-boiling constituent of solvent formulations.

SHELL CHEMICAL CORPORATION

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for **finer** *pharmaceuticals*

2 production advice

powder
ointment
liquid
tablet

The answer to these questions . . . the form of your product . . .
is a first step in planning its production. The answer will not only
influence the manufacturing schedule, but is an essential in
the design of your sales campaign.

Strong Cobb & Company is uniquely equipped to answer this question
for the marketer of a private-formula pharmaceutical.
For more than a century, preparatory advice has featured our distinguished
service in this highly technical field.

Whether you are considering immediate or future production
our technical sales director will be pleased to talk over
your manufacturing problems with you.

Your Problem — 1. *Thorough Research*

Our Services —
2. *Production Advice*
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4. *Rigid Laboratory Control*
5. *Economical Production*
6. *The* LITTLE *things*

Strong Cobb & Company Inc.
Cleveland 4, Ohio

Quassia Chips—Silica Tetrachloride

Q

Quassia chips, bls.....lb. .07 - .09

Quebracho extract, clarified, grd., bgs., c.l., basis 70% tannin..lb. .13½- —
liq., bbls., works, basis 35% tannin..lb. .06⅜- —
tanks, same basis.....lb. .06 - —
lump, bgs., c.l., ex dock in bond, basis 64% tannin..lb. No prices
powd., bgs., c.l., basis 70% tannin..lb. .14½- —
ordinary, lump, bgs., c.l., ex dock in bond, basis 63% tannin. lb. .0821- .0850

Quebracho extract prices are based on $31 freight and $1 insurance per long ton.

Queen of the meadow root bgs.....lb. .12 - .13

Quercitron crystals bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs.....lb. .27 - —

Quicksilver, flasks (76 lbs. net)..flask83.00 -84.00

Quince seed, bgs.....lb. 1.30 - 1.75

Quinidine, NF V, cryst., cns.....oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. .95 - 1.15

Quinine, NF, cns., 100 ozs.....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs....oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs.....oz. No stocks
Dihydrochloride, USP.....oz. No stocks
Ethylcarbonate, NF, cns., 100 ozs.oz. No stocks
Ferrocyanide, cns., 100 ozs.....oz. No stocks
Formate cns., 100 ozs.....oz. No stocks
Quinine hydrobromide, NF, cns., 50-oz. cans..oz. No stocks
Hydrochloride, USP, cns., 100 ozs.oz. .89½- —
Hydrochlorosulphate cns., 100 ozs.oz. No stocks
Hydroiodide, cns., 100 ozs.....oz. No stocks
Hypophosphite, cns., 100 ozs ....oz. No stocks
Phosphate, NF, cns., 100 ozs....oz. No stocks
Salicylate, NF, cns., 100 ozs ..oz. No stocks
Sulphate, USP, cns., 100 ozs....oz. .80½- —
Sulphocarbolate, cns., 100 ozs ..oz. No stocks
Tannate, USP X, cns., 100 ozs...oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs.....oz. No stocks
Quinine-urea hydrochloride, NF, cns.oz. No stocks
Quinolin, dms., c.l. works.....lb. 32 - 50

R

R salt, dry, bbls.....lb. .61 - 72
paste, dms.....lb. 57 - —
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.45 - 2.10

Prices ½c. per lb higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld E. of Rockies. lb. 1.25 - —
light shade, bbls., same basis. lb. 1.10 - —
Red, cadmium, maroon, bbls., same basis..lb. 1.35 - 1.45
medium shade, bbls., same basis. lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
orange-red, bbls., same basis. lb. 1.05 - —

Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Carmine, No. 40, dms., works....lb 5.50 - 5.65
smaller containers, works.....lb 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y., lb. .10 - .10¼
English, all shades.....lb. .16 - —
Iron oxide, synth., bbls.....lb. .10½- .10¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J. lb .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lake C toner, alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works.....lb. .79 - —
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25% kgs., works..lb. .40 - .43
toner, bbls., works.....lb. 1.35 - 1.50
Cadmium, deep, bbls., works...lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
MNPT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb higher.
Red, mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works.....lb. 2.32 - —
Metallic, bbls., works.....lb. .02½- .02¾
Oxide (see Red, iron oxide).
Oxide, Persian gulf, bgs., works..lb. .06¾- —
Para toner, bbls.....lb. 80 - —
chlorinated, kgs.....lb. .95 - .97
concentrated, alizarin lake, kgs., works..lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs.....lb. 1.35 - —
Rose lake, alizarin, bbls., works..lb. .25 - .28
Scarlet ink toner, kgs., works...lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05¼- .06¼
Toluidin toner, alizarin lake, kgs., works. lb. 1.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .21 - .23
Venetian, 15%, bgs., works.....lb. .0310- —
20%, bgs., works.....lb. .0320- —
25%, bgs., works.....lb. .0350- —
30%, bgs., works.....lb. .0380- —
35%, bgs., works.....lb. .0415- —
40%, bgs., works.....lb. .0440- —
Vermilion, Amer., bbls.....lb. .22½- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms lb. 2.48 - 2.50
Red saunders, wood, grd., bbls.....lb. .35 - —
Resorcinol, tech., dms., works.....lb. .68 - —
USP, cryst., dms., works.....lb. 1.70 - —
Rhatany root, bgs.....lb. .11 - .12
Rhubarb root, whole, cs.....lb. .80 - .85
powd., bbls.....lb. .90 - .95
Riboflavin, bots.....kilo.150.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .13 - .13½
Portuguese, bls.....lb. .07½- .08
Spanish, bls.....lb. .13 - .13½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works..100 lbs. 4.50 - —
FF, dms., c.l., works.....100 lbs. 6.50 - —
G, H, I, dms., c.l., works..100 lbs. 7.30 - —
K, dms., c.l., works.....100 lbs. 7.30 - —
M, dms., c.l., works.....100 lbs. 7.30 - —
N, dms., c.l., works.....100 lbs. 7.35 - —
WG, dms., c.l., works.....100 lbs. 7.35 - —
WW, dms., c.l., works....100 lbs. 7.40 - —
X, dms., c.l., works.....100 lbs. 7.50 - —
Rotenone, bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works..per unit. 1.75 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue herb, bls.....lb. .45 - .48
Rutin, bots.....gram. .28½- .60

S

Sabadilla seed, powd., bbls.....lb. .72 - .75
activated ground with lime, bbls.lb. .42 - .50
Saccharin, insoluble and soluble, dms., 1,000 lbs. ..lb. 1.30 - 1.90
smaller lots.....lb. 1.40 - 2.50
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.37.00 -38.00
boxes.....15 oz.31.00 -31.50
Safrol, cns.....lb. .95 - 1.45
Sage, Cyprian, good, bls.....lb. .12 - .12½
futures, bls.....lb. .15 - .15½
Dalmatian, bls.....lb. .29 - .30
Greek, fancy, bls.....lb. .12 - .12½
Palestine, bls.....lb. .16 - .16½
Portuguese.....lb. .11 - .11⅛
Spanish, bls.....lb. .13½- .14
Sago flour, bgs.....lb. .07¾- .08⅛
Salicin, bots.....lb. No stocks
cns.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.03
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l.....ton.21.70 - —
Table, vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l.....ton.25.10 - —
Saltcake, dom., bulk, works.....ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons, 100 lbs.12.40 - —
smaller lots.....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.00 - —
smaller lots.....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons.....100 lbs. 9.00 - —
smaller lots.....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.....kilo.175.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls.....lb. .45 - .50
Honduras, bls.....lb. .60 - .61
Mexican, bls.....lb. .57 - .60
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, French, bls.....lb. .21 Nom.
Saw palmetto berries, bgs.....lb. .23 - .24
Scammony resin, lump, cns.....lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .13 - .14
Schaeffer's salt, bgs.....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs...lb. .27⅜- —
smaller lots.....lb. .28½- —
kegs, 5,000 lbs.....lb. .28½- —
smaller lots.....lb. .28¾- —
Selenium, powd., cns., 10-lb. lots..lb. 2.10 - —
cs., 1,000-lb. lots.....lb. 2.00 - —
Senega root, bls.....lb. 2.00 - 2.50
Senna leaf, Alex., half-leaf, bls...lb. .26 - .27
siftings, bgs.....lb. .23 - .24
Tinnevelly, No. 1, bls.....lb. .22 - .24
No. 2, bls.....lb. .20 - .22
No. 3, bls.....lb. .18 - .20
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .58½- —
bbls., 1,500-lb. lots.....lb. .59 - —
kgs., 1,500-lb. lots.....lb. .61 - —
refined, bgs., 1,500-lb. lots.....lb. .66½- —
bbls., 1,500-lb. lots.....lb. .67 - —
kgs., 1,500-lb. lots.....lb. .69 - —
bonedry shellac sales of less than 1,500 lbs., at following additions to prices:—1c., more for bgs., bbls., or kgs.
Lemon, No. 1, bgs.....lb. .61 - —
No. 2, bgs.....lb. .59 - —
Superfine, bgs., 10 lbs.....lb. .54 - —
TN, bgs., 10 lbs.....lb. .52 - —
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd. 325 mesh, bgs., c.l., Ill. works..ton.24.00 -40.00
l.c.l., works.....ton.29.00 - —
wet-grd., 320 mesh, bgs., c.l. works..ton.24.00 -40.00
l.c.l., works.....ton.29.00 - —
hard-quartz, 99½% 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.25.00 - —
140 mesh, bgs., c.l., works....ton.15.00 - —
l.c.l., works.....ton.20.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .27

styles...with a difference
It's easy to smile at the styles of yesterday but out of this original and practical idea have come the smartly functional, free-action sport styles of today. Many industries have been built by the courageous development of such progressive ideas. Niagara's early pioneering in the field of electro-chemicals has led to the tremendous increase in the utility and variety of these materials until today Niagara is "An Essential Part of America's Great Chemical Enterprise."
NIAGARA ALKALI COMPANY
60 East 42nd Street, New York 17, N. Y.
LIQUID CHLORINE • CAUSTIC POTASH • CARBONATE OF POTASH • PARADICHLOROBENZENE • CAUSTIC SODA • NIAGATHAL (TETRACHLORO PHTHALIC ANHYDRIDE)

Silver bullion, ingots, cs.....oz. .70½- —
Cyanide, cns.....oz. .59½- .59⅞
Nitrate, USP, bots., 2,500-oz. lots. oz. .45½- —
1,000-oz. lots.....oz. .46⅝- —
500-oz. lots.....oz. .47 - —
250-oz. lots.....oz. .47¼- —
Proteinate, mild, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
strong, bots., dms., 1,000-oz lots. lb. .40 - —
Simarubra bark, bls.....lb. .85 - .86
Skullcap herb, Eastern, bls.....lb. .85 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .44 - .45
Slate flour, bgs., c.l., works.....ton.11.00 -12.00
l.c.l., ex whse.....ton.20.00 -60.00
Sloe berries, bgs.....lb. .39 - .40
Smalt, black, cns.....lb. .11 - —
Blue, cns.....lb. .16 - —
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls.....lb. .24 - .25
crushed, bls., bbls.....lb. .32 - .33
cut, foreign, bbls.....lb. .32 - .33
powd., bbls.....lb. .30 - .31
Soda ash, dense, 58% paper bgs., c.l., works..100 lbs. 1.28 - —
l.c.l., dlvd., zone 1.....100 lbs. 2.63 - —
2.....100 lbs. 2.78 - —
3.....100 lbs. 3.13 - —
4.....100 lbs. 3.73 - —
bbls., c.l., works.....100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.03 - —
2.....100 lbs. 3.18 - —
3.....100 lbs. 3.53 - —
4.....100 lbs. 4.13 - —
bulk, c.l., works.....100 lbs. 1.08 - —
extra light, 58%, paper bgs., c.l., works..100 lbs. 1.30 - —
l.c.l., dlvd., zone 1..100 lbs. 2.65 - —
2.....100 lbs. 2.80 - —
3.....100 lbs. 3.15 - —
4.....100 lbs. 3.75 - —
light, 58%, paper bgs., c.l..100 lbs. 1.20 - —
l.c.l., dlvd., zone 1....100 lbs. 2.55 - —
2.....100 lbs. 2.70 - —
3.....100 lbs. 3.05 - —
4.....100 lbs. 3.65 - —
bbls., c.l., works.....100 lbs. 1.60 - —
l.c.l., dlvd., zone 1....100 lbs. 2.95 - —
2.....100 lbs. 3.10 - —
3.....100 lbs. 3.45 - —
4.....100 lbs. 4.05 - —
bulk, c.l., works.....100 lbs. 1.00 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse. Sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls; also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.00 - —
l.c.l., dlvd. zone 1.....100 lbs. 4.35 - —
zone 2.....100 lbs. 4.50 - —
zone 3.....100 lbs. 4.85 - —
zone 4.....100 lbs. 5.45 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.00 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.10 - —
solid, 76% dms., c.l., wks..100 lbs. 2.60 - —
l.c.l. dlvd. zone 1....100 lbs. 3.95 - —
zone 2.....100 lbs. 4.10 - —
zone 3.....100 lbs. 4.45 - —
zone 4.....100 lbs. 5.05 - —

Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash.

Sal, bgs., c.l.....100 lbs. 1.35 - —
works.....100 lbs. 1.10 - —
bbls., c.l.....100 lbs. 1.40 - —
works.....100 lbs. 1.20 - —
Sodium acetate, anhyd., dms., dlvd..lb. .08½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd.....lb. .05½- .06½
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works.....lb. .42 - —
white, powd., dms, works.....lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works. lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.50 - 8.00
Antimoniate, bbls., c.l., dlvd.....lb. .27 - —
l.c.l., dlvd.....lb. .27¾- —
Arsenate, dealers, dms., c.l., works, lb. .12 - —
l.c.l., works.....lb. .13½- .13¾
Arsenite, gray, dealers, dms., c.l., works..lb. .10¾- —
l.c.l., works.....lb. .13¼- .13¾

Sodium arsenite, gray, ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.

Benzoate, tech., bbls., 2 tons.....lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons.....lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs.,c.l., works..100 lbs. 2.25 - —
l.c.l., works.....100 lbs. 2.75 - —
powd., bgs., c.l., works...100 lbs. 1.85 - —
l.c.l., works.....100 lbs. 2.35 - —
Bichromate, bgs., c.l., works....lb. .09 - —
l.c.l., works.....lb. .09½- .09⅝

Sodium bichromate, in bbls., ¾c. higher.

Bifluoride, bbls., c.l., frt. alld. E..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - .14
kgs., l.c.l., frt. alld.....lb. .12½- .14
Bisulphite, powd., bbls., c.l., works, 100 lbs. 3.00 - 3.25
l.c.l., works.....100 lbs. 3.50 - 3.60
solut, 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.65 - —
35°, bbls., c.l., works....100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.55 - —
40°, bbls., c.l., works.....100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .28 - —
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
Chlorate, crystl., dms., c.l., works.lb. .06¾- —
l.c.l., works.....lb. .08 - —
powd., kgs., works.....lb. .08¼- —
Chloride (see Salt).
Chlorite, tech., dms., works.....lb. 75 - —
Chromate, bbls., dms., c.l., works..lb. .10⅜- —
l.c.l., works.....lb. .10¾- .11
Citrate, USP VIII, bbls.....lb. .20 - —
dms.....lb. .21 - .25
USP XIII, gran., bbls.....lb. .26 - —
dms.....lb. .27 - .31

Sodium citrate, USP XIII, powd., prices ½c. higher.

Cyanide, 96-98%, dms.....lb. .14½- .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous, dms., works.....lb. .11½- .13

Sodium fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .09¾- —
95%, bbls., c.l., works.....lb. .09¾- —
l.c.l., works.....lb. .10 - —
Formate, bgs., c.l. works.....lb. 0605- .0650
l.c.l. .....lb. .07 - .0790
Glutamate, monobasic, kgs.....lb. 1.46 - 1.48
Glycerophosphate, NF, flake, bbls. lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld.lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, tech. (see Soda, caustic).
USP, sticks, dms.....lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald..100 lbs. 2.75 - —
l.c.l., same basis.....100 lbs. 3.15 - —
pea cryst., bgs., works, frt. equald..100 lbs. 4.30 - 5.25

Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.

USP (see Sodium thiosulphate).

Iodide, USP, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works, ton.90.50 - —
l.c.l., works.....ton.108.00 -113.00

Sodium metaborate in bbls., $20 per ton higher.

Metanilate, bgs.....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works....100 lbs. 3.00 - —
l.c.l. .....100 lbs. 3.90 - 4.25
bbls., c.l., works.....100 lbs. 3.40 - —
l.c.l. .....100 lbs. 4.30 - 4.75
Sodium monohydrate, bgs., c.l., works, 100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. 46 - .55
Nitrate, crude, dom., bgs., c.l., works..ton.35.50 - —
bulk, c.l., works.....ton.32.00 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.45.50 - —
bulk, c.l., same basis.....ton.42.50 - —
Nitrite, 99%, bbls, c.l., works, frt. equald..lb. .06¾- —
West coast ports....100 lbs. 8.00 - 8.05
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald....100 lbs. 4.00 - —
l.c.l., same basis.....100 lbs. 5.45 - 5.80
hydrated, flake, bbls.,c.l., works, 100 lbs. 4.00 - —
l.c.l., works.....100 lbs. 5.10 - 5.35
Oxalate, neut., bgs., works.....lb. .10 - —
Pantothenate, dextrorotary, bots.gram. .10 -
Pantothenate, dextrorotary, bots.. gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¼
l.c.l., same basis.....lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, USP, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .14 - —
smaller lots, same basis.....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.....100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.75 - 3.90
USP, dried, bbls., dms., works.lb. .159 - —

Silver Bullion—Sodium Sesquisilicate

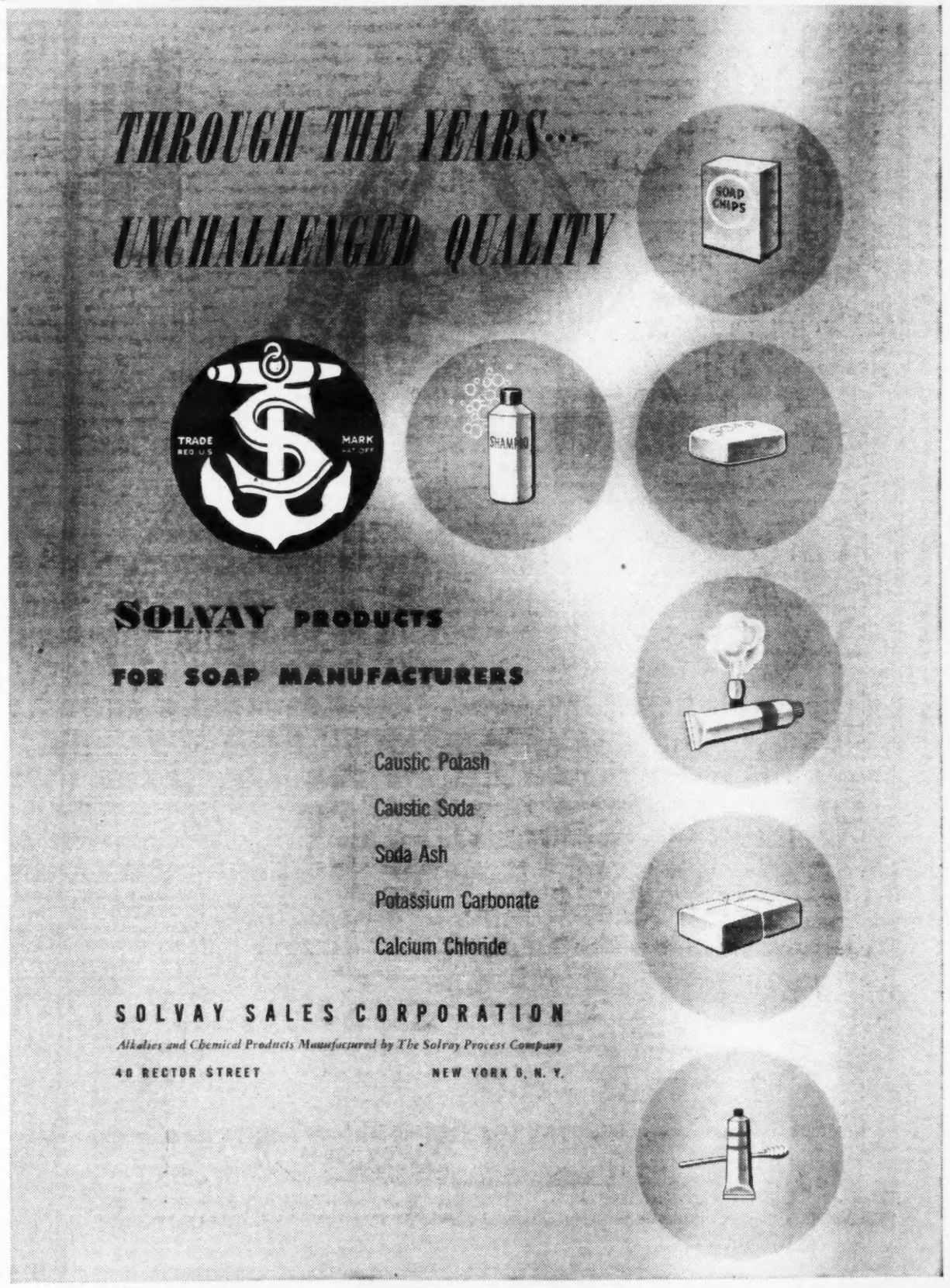
Sodium phosphate, monobasic, anhyd., bgs., c.l., works..100 lbs. 7.25 8.25
l.c.l., works.....100 lbs. 7.65 9.00
tribasic, anhyd., bgs., c.l.,works, frt. equald..100 lbs. 7.00 - —
l.c.l., same basis.....100 lbs. 7.50 - 8.00
cryst., bgs., c.l. works, frt. equald..100 lbs. 3.50 - —
l.c.l., same basis.....100 lbs. 3.90 - —
kgs., c.l., same basis.....100 lbs. 4.20 - —
l.c.l., same basis.....100 lbs. 4.40 - —

Sodium phosphates in bbls. 40c. higher than bgs.

USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .12 - —
bbls.....lb. .12¼- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald...100 lbs.11.25 - —
l.c.l., same basis.....100 lbs.12.00 - —
ferric, dms., 10,000 lbs., works. lb. .22 - —
smaller lots, works.....lb .22½- —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.00 - —
Ricinoleate, tech., bbls. .....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works, 100 lbs. 1.50 - —
bbls., c.l.....works..100 lbs. 1.70 - —
l.c.l., dlvd. zone 1.....100 lbs. 2.70 - —
zone 2.....100 lbs. 2.85 - —
zone 3.....100 lbs. 3.10 - —
zone 4.....100 lbs. 3.50 - —

Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.

Sesquisilicate, bbl., c.l., works 100 lbs. 3.90 - —
l.c.l., dlvd.....100 lbs. 5.15 - 5.30



Sodium Silicate—Tartar Emetic

Sodium silicate, 40°, turbid, dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works..100 lbs. 1.20 - 1.30
tanks, works..ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works..100 lbs. 1.80 - 2.00
tanks, works..ton.27.00 - —
Silicofluoride, bbls., c.l., works..lb. .07½- —
l.c.l., works..lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbls., works..lb. .19 - .24
Sulphate, NF VII, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., works..100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls..lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works, 100 lbs. 3.75 - —
l.c.l., dlvd..100 lbs. 4.15 - —
flake, bbls., c.l., works..100 lbs. 4.50 - 5.50
l.c.l., works..100 lbs. 5.00 - 5.75
lump, bbls., c.l., works..100 lbs. 4.00 - 5.50
l.c.l., dlvd..100 lbs. 4.50 - 5.75
Sulphite, cryst., bgs., c.l., works, 100 lbs. 2.60 - —
l.c.l., works..100 lbs. 3.00 - —
bbls., c.l., works..100 lbs. 3.00 - —
l.c.l., works..100 lbs. 3.40 - —
powd., bbls., c.l., works..100 lbs. 5.25 - —
l.c.l., works..100 lbs. 5.50 - 6.00
Sulphocarbolate, USP 1X, gran., bbls., dms..lb. .28 - .33
powd., bbls..lb. .30 - .35
Sulphocyanide, CP, dms..lb. .55 - .65
tech., dms., works..lb. .30 - —
Sodium sulphoricinoleate, bbls..lb. .12 - —
Sulphydrate, flake, 70-72%, dms., c.l..lb. .05 - —
Thiocyanate (see Sodium sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼- .08½
l.c.l..lb. .05½- —
liquid, 45%, tanks, works..lb. .04¼- —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls..lb. .10 - .12
Tungstate, tech., bgs..lb. 1.45 - —
Sodium-aminonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld..lb. .66 - —
smaller quantities, same basis.lb. .70 - —
Low and med. vis., ctns., 2,000 lbs., same basis..lb. .62 - —
smaller quantities, same basis.lb. .66 - —
Sodium-cinchophen, bots., dms., works.lb. 5.00 - 5.10
Sodium-formaldehyde sulphoxalate, stand. cont..lb. .19 - .22
Sodium-sulpha drugs (see Sulpha name).
Solvent naphtha, coaltar, dms., works, gal. .28 - —
tanks, E. of Omaha, frt. alld, gal. .28 - —
W. of Minnequa, Colo., works, gal. .23 - —
high-flash, dms., works..gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3¼c. per gal..gal. .27 - —
petroleum, 100°F. flash, tanks, Baytown, Tex..gal. .22 - —
150°F. flash, tanks, same basis, gal. .22 - —
Sorbitol, com'l, dms., c.l., works..lb. .25½- —
l.c.l., works..lb. .26 - .35
Soybean flour, industrial, bgs., c.l., dlvd. E. of Rockies..lb. .068 - —
truckloads, same basis..lb. .070 - —
smaller lots, same basis..lb. .072 - —
Protein, bgs., 40,000 lbs., works..lb. .25½- —
20,000 lbs., works..lb. .25¾- —
smaller lots, works..lb. .26 - .26½
Spearmint leaves, bls..lb. .48 - .49
Spikenard root, bls..lb. .50 - .55
Spruce extract, liq., reg., tanks, works, lb. .01¾- —
powd., super, bgs., c.l., works..lb. .05¼- —
Squaw vine, leaves, bls..lb. .45 - .50
Squill, red, fortified, powd., bbls., boxs, lb. 1.60 - —
White, bls..lb. .10 - .12
powd., bbls., bxs..lb. .16 - .20
St. Ignatius beans, bgs..lb. No stocks.
St. John's bread, edible, bls..lb. .12 - .15
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.42 - —
Chicago..100 lbs. 6.97 - —
l.c.l..100 lbs. 7.68 - —
powd., paper bgs., c.l..100 lbs. 7.53 - —
Chicago..100 lbs. 7.08 - —
l.c.l..100 lbs. 7.79 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, bgs., c.l..lb. .0791- .0820
l.c.l..lb. .08¼- .08½
Rice, bgs, c.l..lb. No stocks
Sweetpotato, bgs., c.l..lb. No stocks
Wheat, bgs., c.l..lb. .0720- .07¾
Stavesacre seed, bgs..lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls..lb. .45 - .50
Stoneroot, bls..lb. .07½- .08
Storax, USP, cs..lb. 1.00 - 1.10
Stramonium leaves, bgs..lb. .20 - .25
Seed, bgs..lb. .20 - .21
Streptomycin, hospitals..gram. 3.40 - —
wholesalers..gram. 2.72 - —
Strontium bromide, NF, cns., dms, cs. .80 - .83
Carbonate, 90%, bbls..lb. .14 - .16
98%, bbls..lb. .28 - .30
Chloride, tech., bbls..lb. .22 - .24
Chromate, bbls., kgs., Phila..lb. .40 - .42
Iodide, jars, 25 lbs..lb. 3.00 - 3.06
Lactate, dms..lb. 1.30 - 1.35
Nitrate, bbls., c.l., works..lb. .07¾- —
l.c.l., works..lb. .08¼- .08½
Oxalate, bbls., works..lb. .38 - .40
Salicylate, NF, dms..lb. 1.25 - 1.33
Sulphate, air-floated, 99% 325 mesh, bbls., works..ton.58.00 - —
Strontium-calcium sulphide, luminescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots..oz.30.00 -40.00
Strophanthus seed, Kombe, bgs..lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrolyl acetate, bots..lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .50 - —
tech., bbls., l.c.l., works..lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazin, USP, dms., works..lb. 9.00 - 9.10
Sulphadiazin - sodium, USP, dms., works..lb.10.50 -10.60
Sulphaguanidin, USP, dms., works, lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works, lb. 9.00 - 9.10
Sulphamazerin - sodium, USP, dms., works..lb.10.50 -10.60
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, NF, powd., bots., tins, works..lb. 5.00 - 5.15
Sulphapyridin - sodium, powd., bots., dms., works..lb. 5.00 - 5.15
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs..lb. 6.75 - 6.85
Sulphonmethane, NF, kgs..lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 -18.00
vessels, Gulf ports, contract, long ton.19.50 - —
export..long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works..100 lbs. 2.15 - —
precipitated, USP, bbls., kgs..lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works..100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works..100 lbs. 2.85 - —
l.c.l., works..100 lbs. 3.20 - 3.60
light, bgs., c.l., works..100 lbs. 2.95 - —
l.c.l., works..100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works, 100 lbs. 3.30 - —
l.c.l., works..100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 35c. higher.
rocks, bgs., c.l., works..100 lbs. 2.45 - —
l.c.l., works..100 lbs. 2.80 - —
roll, bbls., c.l., works..100 lbs. 2.65 - —
l.c.l., works..100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l., works, 100 lbs. 2.15 - 2.60
Sulphur chloride, 55-gal. dms., c.l., works..lb. .03¾- —
l.c.l., works..lb. .04¼- —
10-gal. dms., c.l., works..lb. .07½- —
l.c.l., works..lb. .08¼- —
Dioxide, liquid, com'l, cyls., works, lb. .065 - —
multi-unit cars, works..lb. .06 - —
tanks, works..lb. .044 - —
refrigeration, cyls., l.c.l., works, lb. — - —
Iodide, bots., jars..lb. 3.90 - 4.13
Sumac bark, grd., bgs., ex dock..ton.105.00 - —
Extract, No. 1, bbls..lb. .10½- —
No. 2, bbls..lb. .09 - —
crystals, bbls..lb. .40 - —
stainless, bbls..lb. .11 - .13½
Leaves, bgs., ex dock..ton.105.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Balto..unit-ton. .76 - —
Florida..unit-ton. .56 - .59
other points..unit-ton. .57 - .59
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.
Triple, 48% or more, a.p.a., pulv., bulk..unit-ton. .71 - —
South Carolina..unit-ton. .75 - —
Tennessee..unit-ton. .80 - —
Prices on 48% triple superphosphate in other states and D.C., 7½c. per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls..lb. 1.10 - 1.25

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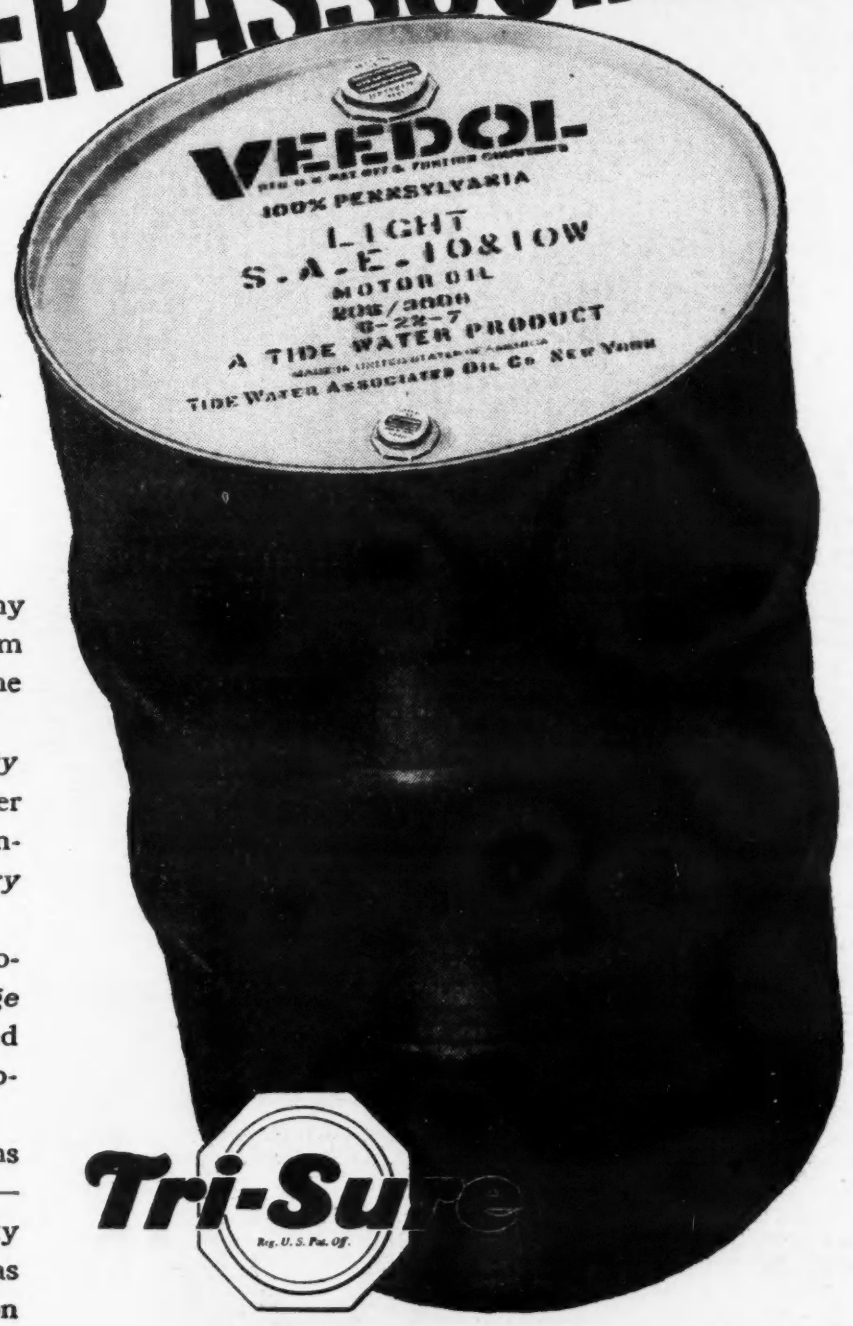
Talc, dom., ordinary, grd., bgs., c.l., works..ton.24.50 - —
l.c.l., works..ton.29.50 - —
Calif., bgs., c.l., works..ton.22.00 -30.00
New York, bgs., works..ton.18.00 - —
Vermont, bgs., c.l., works..ton.14.00 - —
l.c.l., works..ton.17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works..ton.15.00 - —
l.c.l..ton.26.50 - —
98.95-99.95%, grd., bgs., c.l., works..ton.21.00 - —
l.c.l., works..ton.26.50 - —
98-99.5%, grd. works, bgs., c.l. works..ton.24.50 - —
l.c.l., works..ton.29.50 - —
Imp., Canada, grd., bgs., c.l..ton.35.00 -45.00
Tallow, inedible, extra, loose..lb. .14¾ Nom.
fancy, loose..lb. .15 Nom.
special, loose..lb. .14½ Nom.
sulphonated, 25%, dms..lb. .08 - .08¼
50%, dms..lb. .11 - .11½
Tamarinds, bbls..lb. .10 - .12
Tankage, animal, feeding, 9-11% ammon., bulk, unit-ton. 8.75 - —
Chicago..unit-ton.10.00 - —
fertilizer, 9% ammon., 10% b.p.l., bulk..unit-ton. No stocks.
10-11% ammon., 15% b.p.l., bulk Chicago..unit-ton. No stocks.
Tansy leaves, bls..lb. .15 - .16
Tapioca flour, high grades, bgs..lb. .08¾- .09
medium grades, bgs..lb. .07¼- .07¾
Java, bgs..lb. No stocks.
Tar acid oil, 15-18%, ret dms., c.l., works..gal. .35 - —
l.c.l., works..gal. .38 - —
25%, dms., c.l., works..gal. .41 - —
l.c.l., works..gal. .44 - —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices
powd., bgs., c.l., same basis:long ton.225.00- —
Tarragon herb, bgs..lb. .35 - .55
Leaves, bgs..lb. .95 - 1.00
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms..lb. .41¾ - .44
USP, powd., bbls., dms., kgs...lb. .45 - .48

POTASSIUM BICHROMATE
SODIUM CHROMATE
SODIUM BICHROMATE
SODIUM SULPHATE
ALUMINUM HYDRATE
SOLE MFRS. SINCE 1909
Natural
NATURAL PRODUCTS REFINING CO.
JERSEY CITY, N. J.
OF SODA

Quality

from Pennsylvania crude
—the world's finest

TIDE WATER ASSOCIATED



Protection

with Tri-Sure Closures
on every drum

THE Tide Water Associated Oil Company refines its famous Veedol Motor Oil from 100% Bradford Pennsylvania Crude Oil, the finest and costliest known.

And just as Tide Water maintains *quality* by using Pennsylvania crude, Tide Water *safeguards* that quality from plant to consumer by equipping *every drum* of *every size* with Tri-Sure Closures.

Tri-Sure Closures provide the triple protection of an air-tight *seal, plug* and *flange* —the most reliable safeguard ever developed for protecting liquids from tampering, substitution, pilferage and seepage.

On Tide Water drums—and on the drums of other leading shippers of fine liquids—Tri-Sure Closures say, "Here is a quality product . . . delivered to you exactly as specified . . . in exactly the same condition in which it left the plant."

CLOSURES

AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

TRI-SURE PRODUCTS LIMITED, ST. CATHARINES, ONTARIO, CANADA

Terpin Hydrate—Wattle Bark Extract

Terpin hydrate, com'l, bbls., c.l....lb. .24½- —
l.c.l. ....lb. .25 - 25½
USP, cryst., bbls., dms....lb. .70 - .75
powd., bbls., dms....lb. .75 - .80

Terpineol, Alpha (see A).
com'l, dms., c.l., South....lb. .13½- —
l.c.l., South....lb. .14 - —
tanks, South....lb. .13 - —
pure, dms....lb. .40 - .56
extra, dms....lb. .47 - .71

Terpinglycol ether, dms., c.l., works.
lb. 19½- —
l.c.l., works....lb. .20 - —
tanks, works....lb. .19 - —

Terpinyl acetate, extra, cns., dms..lb. .80 - 1.10
prime, cns., dms....lb. .61 - 1.00

Terra alba (see Gypsum).

Tetrachlorethane, dms., works....lb. .08 - 08½
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works....lb. .23½- .25
tech. (see Perchloroethylene).

Tetraethyl orthosilicate, dms., works.
lb. .65 - —

Tetraethylenepentamine, tanks, works.
lb. .50 - —

Tetrapotassium phosphate (see Potassium phosphate).

Tetrasodium pyrophosphate (see Sodium pyrophosphate).

Thallium sulphate, 99%, bots., works,
lb. 20.00 - —

Theobromine, bots., kgs....lb. 4.60 - 4.80
Thiamine hydrochloride, dms., 100 grams..kilo. 160.00 - —
Thiocarbanilide, dms....lb. .24 - —
Thiouracil, dms., works....lb. 5.50 - 5.60
Thioureа, tech., dms., works....lb. .40 - —
Thorium nitrate, cs., works....lb. 3.60 - —

Thyme, French, bgs....lb. No stocks
futures, bgs....lb. No offerings
Spanish, bls....lb. .11½- .12

Thymol, USP, cns....lb No prices
Iodide, NF, dms....lb. 3.55 - 4.25
Timbo root (see Cube root).

Tin crystals, bgs., bbls., works....lb. .55 - .60
Metal, Bolivian....lb. .80 - —
Straits....lb. .80 - —
Oxide, bbls....lb. .80 - .82
Tetrachloride, anhyd., dms., works, lb. .50 Nom.

Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd....lb. 16½- —
l.c.l., dlvd....lb. .17 - .17½
plain, bgs., c.l., dlvd....lb. 16½- —
l.c.l., dlvd....lb. .17½- —
rutile, nonchalking, bgs., c.l., dlvd. E..lb. .18½- —
l.c.l., dlvd. E....lb. .19 - .19½
Hydride, cns., works....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd....lb. .07 - —
Calcium base, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd....lb. .06¾- —
Calcium-rutile base, bgs., c.l., dlvd. lb. .06½- —
l.c.l., dlvd....lb. .06¾- —
Magnesium base, bgs., c.l., dlvd. lb. No prices
l.c.l., dlvd....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller, pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works..lb. .32 - —
smaller pkgs., works....lb. .40 - 1.00

Tolu balsam, cns....lb. 3.85 - 3.90
Toluene (see Toluol).

Toluidin base, distilled, kgs....lb. 1.00 - —
Toluol (toluene) 2° indust., cf., dms., works..gal. .28 - —
tanks, E of Omaha, frt. alld..gal. .28 - —
W. of Minnequa, Colo., works, gal. .28 - —

Prices on 2° toluol from petroleum, tanks delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 28c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); Ia., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; E. Tenn. & N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 25c.; W. Tenn., 23c. (3⅝c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).

1° nitration, ret. dms., works....gal. .28 - —
tanks, E. of Omaha, frt. alld..gal. .28 - —
W. of Minnequa, Colo., works..gal. .28 - —

Tonga, 50% bark and vine, bls....lb. .90 - .91

Tonka beans, Angostura, cks....lb. 1.70 - 1.80
Brazilian, cs....lb. .85 - .90
Surinam, cs....lb. .85 - .90

Totaquine, USP, 100-oz. lots....oz. .52 - —

Triacetin, dms., works....lb. .46½- —

Triamylamine, dms., c.l., works....lb. .98 - —
l.c.l., works....lb. 1.01 - —

Tributyl citrate, dms....lb. .41 - .50
smaller pkgs....lb. .54 - .56
Phosphate, dms., l.c.l., frt. alld., E. of Rockies..lb. .68 - —
smaller pkgs....lb. .72 - .74

Tributylamine, dms., c.l., works..lb. .78 - —
l.c.l., works....lb. .81 - —
tanks, same basis....lb. .07½- .09¾

Trichlorobenzene, dms., c.l., works, frt. alld. or equald..lb. .08½- .11
l.c.l., same basis....lb. .09½- .12

Trichloroethane, dms., c.l., works..lb. .15 - —
l.c.l., works....lb. .17 - —

Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .09¾- —
zone 2....lb. .10½- —
zone 3....lb. .11 - —
zone 4....lb. .11 - —

Trichloroethylene dm., c.l. prices ½c. higher; l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar, dms. c.l., dlvd..lb. .32½- .33
l.c.l., dlvd....lb. .33 - .33½
tanks, dlvd....lb. .31 - .32

petroleum, dms., c.l. dlvd....lb. .37 - —
l.c.l., dlvd....lb. .37½- —
tanks, dlvd....lb. .36 - —

Triethanolamine, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis....lb. .21½- —
smaller containers....lb. .24½- —
tanks, same basis....lb. .19 - —

Triethyl phosphate, dms., works, c.l. lb. .38 - —
dms., l.c.l., same basis....lb. .39 - —
tanks, same basis....lb. .37 - —

Triethylamine, dms., c.l., works, basis 100% lb. .34 - —
l.c.l., works, basis 100%....lb. .36 - —
tanks, works, basis 100%....lb. .30 - —

Triethyleneglycol, dms., c.l., frt. alld. E lb. .18½- .19
c.l., same basis....lb. .19½- .21
tanks, same basis....lb. .17½- —

Triethylenetetramine, tanks, works..lb. .50 - —

Trimethylamine, anhydrous, cyl., works, basis 100%..lb. .25½- .30¼
25%-40%, dms., c.l., works, basis 100% lb. .28 - —
l.c.l., works, basis 100%....lb. .29½- —
tanks, works, basis 100%....lb. .25 - —

Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l. frt. alld....lb. .27 - —

Tripoli, air-floated, bgs., c.l., works..lb. 0175- —
double-grd., c.l., works....lb. 015 - —
single-grd., bgs., c.l., works....lb. 015 - —

Trisodium phosphate (see Sodium phosphate, tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works..lb. 2.85 Nom.
Oxide, kgs., works....lb. 4.75 Nom.
Turmeric root, Alleppey, bls....lb. .22 - .22½
Haitian, futures, bls....lb. .13 - .13½
Jamaica, futures, bls....lb. .15½- .16
Madras, bgs....lb. .18½- .19

Turpentine, gum (see Naval Stores Protective Coatings market)
Sulphate, ret. dms., East....gal. .65 - —
tanks, East....gal. .40 - —
Wood, dest.-dist., dms. incl. c.l. works, South....gal. .50 - —
l.c.l., same basis....gal. .55 - —
N. Y. whse....gal. .60 - —
tanks, works, South....gal. .40 - —
steam-dist., dms. incl., l.c.l., East gal. .76 - —
tanks, South....gal. .55 - —

U

Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs....lb. 2.55 - —
yellow, kgs....lb. 1.65 - —
Urea, dom., 40% N., bgs., c.l., works or ship. pts....ton. 73.60 - —
l.c.l., ship. pts....ton 75.50 - 80.50
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports, ton. 57.40 - —
fixed ammonia content, Atlantic and Gulf ports..NH_3-ton. 116.80 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton. 59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..NH_3-ton. 112.80 - —
C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.
Uva ursi leaves, bls....lb. .13 - .14

V

Valerian root, Belgian, NF, bls....lb. .56 - .58
Indian, bls....lb. .40 - .41
Valonia beards, bgs., ex dock....ton. 75.00 - 75.00
Cups, bgs., ex dock....ton. 52.00 - 54.00
Extract, powd., bgs., ex dock....lb. .10½- .10¾
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works....lb. 1.10 - —
Vanilla beans, Bourbon, tins....lb. 7.75 - 8.50
Mexican, cuts, tins....lb. 9.50 - 10.00
whole, tins....lb. 10.50 - 11.00
Tahiti, tins....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs....lb. 3.00 - —
smaller lots....lb. 3.05 - 3.15
ex lignin, dms., 25-lb. lots....lb. 3.00 - —
tins, smaller lots....lb. 3.05 - 3.15
smaller lots, tins....lb. 3.05 - 3.15
Venice turpentine, artif., cns....lb. .24 - .25
Verdigris, bbls....lb. .28 - .29
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works....lb. .15½- —
l.c.l., works....lb. .16½- —
tanks, works....lb. .14 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ret, dms., works....lb. 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units....mill units. .08 - —
100 million USP units..mill units. .08 - —
Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill. units. .36 - .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotin, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls....lb. 1.75 - 2.00
Tree bark, bls....lb. .45 - .50
Wattle bark, fair average, bgs., ex dock..ton. 69.00 - 71.00
merchantable, bags, ex dock..ton. 66.00 - 68.00
Extract, liquid, 35% tannin, bbls., works..lb. .06¾- .07¾
tanks, works....lb. .06¾- .06¾

Eagle-eyed buyer
"whooping it up" for a
better steel container

You'll whoop when you get Continental pails. Continental makes only top-quality steel containers . . . the best you can buy. The Continental line is complete . . . light- and heavy-gauge pails and drums, large and small, for hundreds of different uses—solid, semi-solid, liquid, or dry bulk. Whoop for Continental when you need steel pails.

SPECIAL NOTE TO MANUFACTURERS: *Consumers of your products rate these containers high because of their long re-use value around the plant or on the farm. This is a plus value to remember.*

A COMPLETE LINE OF STEEL SHIPPING CONTAINERS

The Triple-C means best in quality, service

CONTINENTAL CAN COMPANY

100 East 42nd Street, New York 17, N.Y.

Wattle bark extract, solid, E. Afr., 61% tannin, in bond, ex dock. lb. .04 - —
S. Afr., 62% tannin, in bond, ex dock..lb. .08 - —
Wattle extract prices based on $17 freight and $1 insurance per long ton.
Wax, amorphous (see Wax, micro crystalline).
Bayberry, bgs. .....lb. No stocks
Bees, bleached, USP, white, cakes, cs..lb. .65 - .70
slabs, bgs. .....lb. .64 - .68
crude, African, bgs.....lb. .50 - .52
Western hemisphere, bgs.....lb. .52 - .54
refined, yellow, bricks, cs.....lb. .57 - .58
slabs, bgs.....lb. .55 - .56
Candelilla, crude, bgs.....lb. .62 - .63
refined, bgs. .....lb. .65 - .66
Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots...lb. .88 - .90
North country, No. 2, ton lots....lb. .93 - .95
No. 3, bgs., ton lots.....lb. .90 - .92
refined, bgs., ton lots.....lb. .95 - .97
yellow, No. 1, bgs., ton lots.....lb. 1.34 - 1.35
No. 2, bgs., ton lots.....lb. 1.33 - 1.34
Powdered carnauba price differentials same as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs. lb. .16 - 16½
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .20½ - .21
Japan, bgs.....lb. .35 - .40
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns. 30 tons yearly contract, group 3 works..lb. .16 - —
smaller lots, same basis....lb. .16 - .17½
170°-175° m.p., ASTM, black ctns., 30 tons, same basis..lb. .14½ - —
smaller lots, same basis....lb. .14½ - .15½
white, ctns., 30 tons, same basis. lb. .27 - —
smaller lots, same basis....lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis..lb. .21 - —
smaller lots, same basis....lb. .21 - .22
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis..lb. .19½ - —
smaller ctns., same basis....lb. .19½ - .20½
white, ctns., 30 tons, same basis. lb. .34 - —
smaller lots, same basis....lb. .34 - .35
Montan, crude, bgs.....lb. .45 - .47
Ouricury, crude, bgs., ton lots....lb. .56 - .58
refined, bgs., ton lots.....lb. .63 - .65
Ozokerite, dom., 160-190 m.p., bgs., c.l...lb. .35 - —
182-183 m.p., bgs., c.l.....lb. .31 - —
171-172 m.p., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. 421 - 431
cake, cs. .....lb. 432 - 472
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. lb. 2.27 - —
White pine bark, rossed, bls.....lb. .18 - .19
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton. 9.50 - —
smaller lots, St. Louis, works..ton.12.50 - —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l.....ton.14.50 -27.50
99% 200 mesh, bgs., c.l....ton. No prices
98% 200 mesh, bgs., c.l....ton. No prices
water-floated, extra gilders, bgs., c.l...ton.14.50 -28.00
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l.....ton.13.00 - —
surface treated, bgs., c.l. Ohio works..ton.30.00 - —
Paris white, bgs., c.l.....ton.25.00 -31.00
L.c.l. .....ton.25.00 -29.00
Precipitated, bgs., c.l.....ton.18.00 -20.00
L.c.l. .....ton.22.00 -25.00
Wild cherry bark, thick, bls.....lb .06 - .07
thin, natural, bgs.....lb .18 - .20
rossed, green, bls.....lb .24 - .26
Wild indigo root, bls.....lb. .30 - .31
Witch hazel leaves, bls.....lb. .25 - .26
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., works, East..ton.32.00 - —
L.c.l., same basis.....ton.40.00 - —
60 mesh, bulk, c.l., same basis..ton.37.00 - —
L.c.l., same basis.....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis.. ton.40.00 -45.00
L.c.l., same basis.....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanoline).
Wormseed, American, bgs.....lb. .17 - .18
Levant, bgs. .....lb. 4.25 - 4.30
Wormwood, bls. .....lb. .59 - .60

X

Xanthorrhiza root, bls.....lb. .28 - .30
Xylene (see Xylol).
Xylenol, 5°-7°, ref. dms., c.l., works, frt. equald. ..lb. 19¼ - —
L.c.l., same basis.....lb. 19¾ - —
tanks, same basis .....lb. .18½ - —
fractions, ref. dms., c.l., same basis..gal. 1.26 - 1.31
L.c.l., same basis.....gal. 1.29 - 1.35
tanks, same basis.....gal. 1.20 - 1.25
Xylidins, mixed, dms.....lb. .38 - .38½
Xylol (xylene), indust., ref. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld...gal. .24 - .25
W. of Minnequa, Colo., works gal. .24 - —
10°, ref. dms., works.....gal. .30 - —
tanks, E. of Omaha, frt. alld...gal. .25 - .27
Prices on 10° xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses), are:—Ark., 25c.; Del.-Md.-D. C., 25c. (2¾c.); Detroit, 25c. (1 8/10c.); La., 25c.; N. E., 25c. (2½c.); N. J., 25c.; N. Y., 25c.; E. Tenn. & N. C., 27c. (5c.); Pa., 25c. (2¾c.); S. C., 27c.; W. Tenn., 27c. (3½c.); Va., 25c. (3½c.); W. Va., 25c. (2¾c.); the Chicago prices is 22c., f.o.b. terminal.
5°, ref. dms., works.....gal. .38 - —
tanks, E. of Omaha, frt. alld...gal. .33 - —
3°, ref. dms., works.....gal. .43 - —
tanks, E. of Omaha, frt. alld...gal. .38 - —

Y

Yara yara, cryst., bots., cs. ....lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
60 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .50 - —
300 B units, dms.....lb. .60 - —
Yellow, barium chromate, CP, bgs., L.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., dlvd.....lb. 1.60 - —
Yellow, cadmium, CP, all shades, bbls., frt. alld. E. of Rockies..lb. 2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .33 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .26 - —
Dlvd Ala., Fla., Ga., La., (Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago
Hansa, bbls., same basis as chromes. lb. 1.60 - —
Primrose, bbls., same basis.....lb. 1.90 - —
Iron oxide, natural, bgs., c.l., works. lb. .01½ - .02¾
l.c.l., works .....lb. .02¾ - .03¾
French type, bgs., c.l.....lb. .04 - —
l.c.l. .....lb. .04½ - —
Peruvian type, bgs., c.l...ton.27.00 -32.00
synth., bgs., c.l., works.....lb. .08¼ - —
l.c.l., works.....lb. .08½ - —
Mercury oxide, bbls., 1,000 lbs.....lb. 2.23 - —
smaller lots .....lb. 2.25 - —
Other, American, golden, bgs., works. lb. .01¼ - .02¾
Zinc, bbls., same basis as chromes..lb. .19 - —
Yellow dock root, bls.....lb. .23 - .25
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .30 - .31
Yohimbine hydrochloride, vis.....oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works.....lb. .25 - —
smaller lots works.....lb. .30 - —
Zinc acetate, tech., bbls., dms.....lb. .20 - —
USP, bbls. .....lb. .26 - .27
kgs. .....lb. .27 - .29
Arsenite, bgs., c.l., frt. alld. E. of Rockies..lb. No stocks
l.c.l., same basis.....lb. No stocks
Carbonate, tech., rubber-makers' bbls., works..lb. .10¾ - .11¾
USP, precip., powd., bbls.....lb. .35 - —
dms. .....lb. .40 - —
kgs. .....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.55 - —
gran., bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works .....100 lbs. 7.40 - —
solution, 50%, dms., c.l., works lb. .0355 - —
l.c.l., works.....lb .0425 - —
tanks, works .....lb .0300 - —
USP, gran., dms.....lb. .30 - .31
jars .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .34 - .35
Diethyldithiocarbamate, dms., works lb. 1.15 - —
Dust, bbls., c.l., dlvd.....lb. .1250 - .1300
l.c.l. dlvd. .....lb. .1275 - .1309
Fluoride, bbls., works.....lb. .18 - .19
Hydrosulphite, dms., works.....lb 16 - —
Iodide, NF, jars.....lb 4.65 - —
Laurate, bbls.....lb. .43 - .46
Linoleate, solid, 9½%, bbls.....lb. 53¼ - —

Wattle Bark Extract, Solid—Zinc Oxide

Zinc metal, slabs.....lb. .11 - —
E. St. Louis.....lb. .10½ - —
Naphthenate, liquid, 8% Zn, dms..lb. .19¾ - —
10% Zn, dms.....lb. .24 - —
solid, 14% Zn, dms.....lb. .31¾ - —
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld..lb. .10 - —
l.c.l., works.....lb. .10¼ - —
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld..lb. .10 - —
l.c.l., works.....lb. .10¼ - —
leaded, 5%, bgs., c.l., ship't point, frt. alld..lb. .11¾ - —
l.c.l., works.....lb. .10¼ - —
35% or more, bgs., c.l., ship't ship't point, frt. alld. lb. .11¾ - —
l.c.l., works.....lb. .12 - —
50%, bgs., c.l., ship't point, frt. alld..lb. .12¾ - —
l.c.l., works.....lb .12¾ - —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld..lb .12¼ - —
l.c.l., works.....lb. .12¼ - —
green, seal, bgs., c.l., ship't point, frt. alld..lb. .11¾ - —
l.c.l., works .....lb. .12 - —
red seal, bgs., c.l., ship't point, frt. alld..lb. .11¼ - —
l.c.l., works.....lb. .11½ - —
white seal, bgs., c.l., ship't point, frt. alld..lb. .12¼ - —
l.c.l., works.....lb. .12½ - —

—Continued on page 72

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Volume 152 September 15, 1947 Number 11

Businessmen in Office

In very few, if any, matters, is there a greater measure of earnest advice and commendatory declaration than can be found in the records of discussions on the need for businessmen in governmental positions. In few, if any, other areas of human activity does the realization of theories fall as short of their logical potentiality. In very few instances is a man's business stature matched by his proficiency as a public servant. Businessmen of marked ability most often do not measure up to the demands of statesmanship or general understanding which face them in public office.

The reason is a simple one: they have had very little, if any, training for public service. That situation is a most unfortunate one, because men of mature business experience should "retire" to public life when it is desirable that they make way for their younger business associates. Public office needs more business sense, but it needs more than that. And the other necessary qualifications all too often overshadow business ability in the selection of officeholders.

Sometimes the right man is selected. An outstanding example of such fitness is presented in the instance of the director of mediation and conciliation service under the new labor relations law. The man chosen for that new and important post has had long experience in business, and that experience has been in the field of employment relations. In that field, the new director long has been recognized as having ability and understanding far beyond the average. Those are qualifications of which his new position is most emphatically in need.

The latest experiment of an able businessman in a public office for which he is particularly well qualified will be most interesting to watch. Other men under somewhat similar circumstances have performed variously and frequently have found it impossible to perform as they believed proper. It is a political axiom that the office most often makes the man. In most instances, a statute makes the office, and in that respect the new director of employment mediation and conciliation has not been especially well implemented. It is earnestly to be hoped that his ability will not be sacrificed on any altar of political expediency.

Training to Sell Paint

The paint business is one in which there is a particular need at this time for a real seller's market. This, it may well be repeated, is not what is popularly known by that term but has no selling in it. A real seller's market is a market developed by the seller and served by the seller to the best possible satisfaction of the buyer. The need for such a market for paints and related coatings is ubiquitously obvious.

This condition is well recognized by all alert participants in the paint business, and the National Paint, Varnish and Lacquer Association is vigorously striving to develop an industrywide sales-promotion campaign. This is expected to be ready within a short time. The association has set itself also to the development of able and adequate on-the-spot selling, recognizing that consumer interest alone is not sufficient to consummate sales potentialities. There must be consumer acceptance, and because of the important part played by selection in the buying of paint, consumer acceptance cannot be properly created by long-range efforts.

The national organization of the paint business has prepared an instructive brochure on how to start a sales-training course in any community. This presents the possibilities in the application of the George-Braden act for the promotion of vocational education. It is an extension of the association's promotion of "paint power" to its point of greatest efficacy—the local market. The scheme is comprehensive and should present no difficulties of adoption and completion. With due recognition of the fact that example is a very good paint salesman, the sales-training movement can do much to strengthen the competitive position of the paint business.

Doing Business with Government

It would be good for very many persons in very many ways if businessmen had a large part in the conferences of the National Institute of Governmental Purchasing. The benefits would come especially to the taxpayers. Even the governmental purchasers admit that they should know more about purchasing technics and commercial trends. Their association has been pleased to learn, within the past few weeks that a national academy for public purchasing is to be established under the auspices of the Bureau of Federal Supply. The purpose of the proposed academy is the interchange of experience and other information. Its efficacy will be greatly enhanced if businessmen are admitted as contributors to its service.

Governmental purchasers at their recent conference discussed ways and means of making it easier to do business with government. Businessmen had a part in that discussion, their presence being a novelty. The discussion brought out as basic the need for better knowledge on the part of all concerned of laws and other regulations having to do with governmental buying, for better acquaintance with forms used in bidding, and for streamlining and other clarification and simplification of such forms. Much good can be dug out of each and all of those needs.

Governmental purchasers are puzzled, so they say, by the fact that the larger, more inportant suppliers of goods which they wish to buy manifest little, if any, interest in bidding on governmental needs. They are not pleased with the necessity of dealing with lesser concerns. They would prefer to deal with first-hands rather than with seconds and thirds. Maybe they found out at the recent conference with businessmen why their operations are what they are. Businessmen do not hesitate to say what they do not like about doing business with government. The conditions set out in forms are not in keeping with their customary processes of trade. Government buying is too much broken up: overall, full-year contracting would be much simpler—and often much cheaper. There are many details under those two general complaints. The proposed academy can do much to eliminate the causes. Whether it will depends on the manner and extent of the right businessmen's participation in its functioning.

Washington Talks

—*Continued from page 5*

weights by the producers of narcotics is more than just a move on their part to get on the metric system bandwagon; it has a definite monetary value to them. To say that 60 mg. equals approximately 1 gr., as USP XIII states in its table of equivalents, means a saving of about 7 mg. of product to the producers (60 mg. closely equals 0.926 gr.). In these days of high prices any small savings is a big factor.

FDA just recently gave legal sanction to the use of the metric weights on the labeling of narcotics when asked about the labeling of morphine tablets. It wants the label to show the approximate avoirdupois equivalent also, however. The agency said that an expression such as "Morphine Sulfate Tablets 60mg. (approximately 1 grain)" would meet the requirements of the food and drugs act.

Defense Service Buying Unified

One of the first tangible results of the merger of the army and the navy into a single department of national defense will be the adoption of a unified system for the purchase of supplies and equipment for the armed services. Most of the necessary adjustments in unification are expected to require two years or more, but in the matter of procurement it will take much less time than that.

The reason for this is that the services were able to get a headstart on this phase of the unification program by reason of the fact that much of the procurement of supplies during the war was done jointly. This experience enabled the procurement officers to find where many of the trouble spots lay and make their plans accordingly. Much work still remains to be done, however, in the direction of specification revisions.

One of the chief benefits of the unified system of procurement is expected to come from savings in cost of materials. There will be no more examples of competitive bidding among the services, such as has been the case in the past.

Farm Markets Abroad

The Agriculture department isn't limiting its quest for new outlets for farm surpluses to domestic markets. Commodity specialists are now being selected to be sent abroad to stimulate foreign demand for some of our products usually produced here in excess of needs, such as cotton, rice, tobacco, fruit, and tree nuts.

The work that they will do is very much like that now being done for manufacturing industry by the Commerce department, with this one advantage—the men from Agriculture will be specialists in particular commodities and they will make on-the-spot surveys of foreign market prospects. They will be men thoroughly acquainted with what producers and shippers want to know in the way of information about foreign markets. There was a time when the Commerce department could perform the same service for industry, but not any more. Now this information is gathered only through our embassies by employes usually not too well versed in the needs of a particular industry.

Secretary Anderson found the authority to send his specialists abroad in the provisions of the research and marketing act of 1946. Now all he will have to do is find some way to provide the foreigners with dollars and the desire to spend them on our agricultural products after his men have found the "new" markets.

Colors-For-Money Crusade

Representative Edith Nourse Rogers of Massachusetts wants the Treasury to add a touch of color to the money transactions of the citizens. Let's get away from this one shade of green for all bills that so often leads to mistakes in making change, and give each denomination a separate and distinct color of its own, she says.

Let the ones be green, for example, the fives yellow, the tens blue, and so on through the color chart, somewhat like the Post Office does with its stamps. Then there will be less chance of tens being confused with ones, or fives with fifties. Think what a lift a person will get when he opens his purse to view a rainbow of colors instead of a roll of green paper without being able to tell right off whether he's got his $1,000 bills mixed up with his $1's!

Mrs. Rogers dropped her proposal in Treasury Secretary Snyder's lap a few weeks ago and said in effect, "Well, how about it." Mr. Snyder has to be excused. He wasn't ready for such a precedent-shattering scheme as this, what with being in the midst of helping Britain straighten out her dollar difficulties, trying to keep the Republicans off his neck for not favoring immediate tax reductions, and the like. He could only reply that he hadn't noticed any public demand for multi-colored money yet. The fact that the public hadn't heard of Mrs. Rogers proposal at the time seemed to be overlooked.

Mrs. Rogers isn't going to drop it, however. She is going to put a bill in next session to compel Mr. Snyder to tint his currency, so if you have any preferences in color, now is the time to make them known.

Ammonium Nitrate Blockade

The refusal of the city fathers at the major exporting centers of the country to permit the loading or unloading of ammonium nitrate at their ports—a refusal that is perfectly understandable in the popular light of the Texas City and Brest, France, disasters—is building up a big problem for the government officials concerned with the fertilizer export program.

Hardly more than a dribble of the tonnage that is scheduled for export has got out of the country since these disasters; whereas, by January 1, the export program should be 60 percent complete. This means that the longer it takes to make arrangements for ports where shipments can be loaded aboard vessels, the greater will be the interference of the export program with the domestic program. And as a natural follow-up, the louder will be the howls from the congressmen.

According to the army, there are least half a dozen ports along the Atlantic seaboard and the Gulf that can be used for exporting ammonium nitrate. But the rub is, the ports are so located as to result in excessive freight charges, they are lacking in adequate facilities, or they are in such a state of disrepair that they are useless.

Agricultural World Stability

A drive for establishment of international commodity agreements in the major products of agriculture appears to be gaining momentum among the leading producing and consuming countries. The purpose of such agreements is to provide assurance to farmers of stable markets for their products, and the feeling is growing that this can only be accomplished internationally.

According to reports emanating from the Geneva conference of the Food and Agricultural Organization much attention is being given to this subject from the point of view of long-range agricultural planning, with the United States in the forefront of the movement. Our delegate is understood to have emphasized the importance of such agreements particularly in the field of fats and oils, food grains, wool, and cotton.

Detail work has already been started on a wheat agreement and it is reported that an announcement on this may be made soon.

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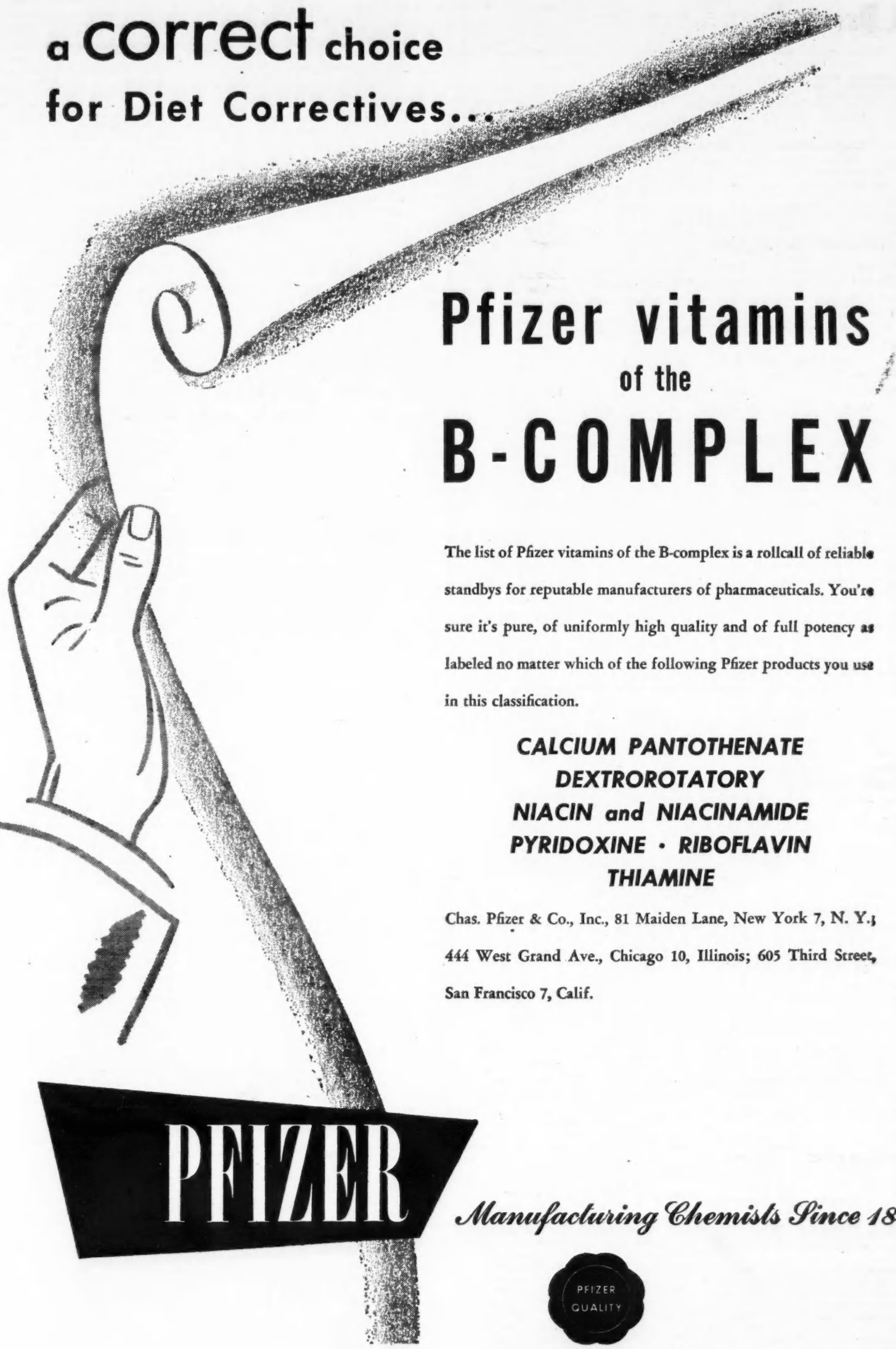

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Heavy Chemicals

Some pick up in demand for industrial chemicals could be noted last week. The upward trend of prices has stimulated buying interest with prompt shipments commanding the most attention. Although the alkali supply situation continued definitely tight there were indications that a few other markets had been brought into better balance. Liquid caustic potash stocks showed an appreciable improvement over a month ago. Domestic consumers of potassium permanganate are having their requirements covered, but there is not enough stock to meet export wants at the present time. The tight spots have included the sodium phosphates, sodium sulphide, chlorine, calcium chloride and salt cake. Carbon tetrachloride is tighter than a month back as a result of an increased demand and difficulties experienced at a major producing plant.

Sodium chlorate has departed from its even price range and advanced a half cent per pound. It is stated this is the first price revision in ten years. Methylene chloride has been established at a higher selling basis. Chromic acid has advanced as a result of higher sodium bichromate prices. Phosphorus oxychloride and trichloride have been advanced in price. Potassium perchlorate is higher and in a relatively tight position. Carbon tetrachloride will be advanced one-half cent per pound on September 15 and several other chemicals will be priced higher on October first. All of the upward revisions can be traced back to the higher prices for fuel, containers, wages and raw materials essential to production.

Platers showed more interest in nickel sulphate, possibly in preparation for the holiday trade. Copper sulphate attracted more attention from Florida farmers and received added attraction from the West coast as a result of the destruction by fire of a major producing plant in California. The chlorine shortage has become acute at points on the Pacific coast where the lack of power has cutback production. August prices for sodium tungstate have been extended through September. No improvement could be noted in buying conditions for sodium sulphide. Stocks for prompt shipment are definitely short and prices firm at the recent advance. A leading producer, who was the lowest seller of sulphur chloride, has advanced prices to a higher level.

Paper production based on a percentage of six-day capacity was 84.7 percent for the week ending September 6, according to the American Pulp and Paper Association. This compares with 104.5 in the preceding week and 86.7 for the corresponding week in 1946.

Bauxite—Shipments of normal dimensions have been made to the aluminum and chemical industries. Domestic producers have been able to meet contract requirements at prices ranging from $8.50 to $10 per ton bulk, works. An importation of 3,708 tons was noted last week.

Chlorine—No easement in the supply situation could be noted in this market. Increasing demand has created a tight market condition and pressure for shipments has increased. The shortage of tankcars has remained a problem and has interfered with both production and distribution. The shortage of chlorine has reached the acute stage at points on the Pacific coast, particularly in the Los Angeles area. It is stated that several miles of beaches have been quarantined owing to the inability to secure sufficient chlorine for treatment of sewage disposal.

Copper Acetate—Small lots have commanded attention but there has been no activity in a large way either for prompt or forward shipments. Stocks are adequate to meet demand.

Copper Chloride—Difficulty at major producing quarters has caused some delay in the movement to consumers. Shipments at present are increasing and it is expected that deliveries will run flush with scheduled requirements shortly.

Copper Hydrate—Production is meeting a steady industrial demand promptly. Stocks have been brought to a satisfactory level and suppliers are in a position to take on additional business.

Copper Sulphate—Florida buyers are calling for this material for agricultural use at present and demand is expected to improve as the year advances. The Florida buying movement usually covers the period from September through March. A normal industrial demand is being experienced. It is stated that a huge tonnage is required in Europe and may be placed if the dollar exchange is ever cleared up. Some suppliers hope the adoption of the Marshall plan may help to straighten out the distorted exchange situation. Some inquiry was noted late in the week from the West coast as a result of serious damage by fire to the plant of a large producer in California.

Glauber's Salt—No improvement could be noted in buying conditions. Heavy demand from the dyestuff, glass and other consuming industries has not relaxed and production has been insufficient to meet requirements promptly. The present market position is described as definitely tight.

Manganese Dioxide—Stocks have been maintained at a level to meet consuming requirements promptly. Demand for waterproofing, cement and enamels has shown a fair degree of activity and showed a tendency to expand since the turn of the month. Small lots representing actual wants have commanded the most attention it is stated.

Methylene Chloride—Prices have been advanced one-half cent per pound. The carlot price delivered in zone one is 12½c. per pound and 13½c. for less than carlots. The tankcar price is 11½c. per pound. In producing quarters, it was stated that the raise in prices reflects directly recent increases in costs of raw materials and drums.

Nickel Carbonate—Moderate buying was noted in this material and also in nickel chloride. Consuming interest appeared to be confined to actual wants. The supply situation has continued favorable with producers able to meet requirements promptly.

Nickel Salts—Demand has shown some improvement since the turn of the month. Buying for plating uses has been confined mostly to prompt shipments, possibly in preparation for the holiday trade. Stocks have remained at a level capable of meeting all wants without difficulty.

Phosphorus Oxychloride—Higher prices are effective for this material. Carlots are held at 10¾c. per pound in drums works and smaller quantities at 12¾c. to 13¾c. per pound works.

Phosphorus Trichloride—Market position is firmer with spot shipments priced higher. Carlots are held at 10¾c. per pound in drums and smaller lots at 12¾c. to 13¾c., depending upon the quantity and style of container.

Potash, Caustic—It is stated production has about caught up with demand for liquid and the position of the market is in much better shape than noted a month ago. The dry forms are in short supply and at present are insufficient to meet requirements on a prompt basis.

Potassium Carbonate—Stocks have remained short for prompt shipment and there was no apparent easement in the supply situation. While the heaviest demand appears to emanate from the glass industry, the market has felt the impact of a heavy miscellaneous inquiry which has increased since the beginning of the month.

Potassium Chlorate—Although no change in prices for domestic use has been announced, the market has developed a firmer tone under a slow but persistent increase in the demand from the match factories. Stocks, while meeting the demand promptly, have been appreciably reduced from those prevailing in the early summer months.

Potassium Perchlorate—Domestic stocks have been greatly reduced under recent buying. Producing costs have increased sharply in the late months owing to higher priced labor and raw materials in which platinum plays an important part. The market is now quoted at 12½c. to 14c. per pound in kegs works, depending upon the quantity involved.

Potassium Permanganate—Current production is meeting domestic requirements

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Chromic acid, 1⅝c. per lb.
Methylene chloride, ½c. per lb.
Phosphorus oxychloride, ¼c. per lb.
Phosphorus trichloride, ¼c. per lb.
Potassium perchlorate, 2½c. per lb.
Silver bullion, ¼c. per ounce.
Sodium chlorate, ½c. per lb.
Sulphur chloride, ¼c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
201.1	200.5	199.9	171.8

Acids

Last week.	Prev. week.	Last month.	Last year.
119.3	119.3	119.3	116.0

(For Current Prices see Page 9)

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in a satisfactory manner although there is not enough stock left over at present to permit export shipments. It is stated that foreign inquiry has broadened and is waiting to be covered. The market position is firm, but without indication of any immediate change in prices.

Salt Cake—Continued pressure for shipments to the paper and other consuming industries has prevented any easement in the supply situation. Demand has exceeded current production and the market has remained in a definitely tight condition with no apparent easement in sight at the present time.

Soda Ash—Supply conditions have shown no appreciable improvement since the turn of the month. Industrial demand for both light and dense ash has been sustained at a level exceeding output and the market has remained out of balance and definitely tight. Shipments are being made direct from production and it looks as though this condition will prevail indefinitely. With higher contract prices in sight on October 1, the market position is decidedly firm.

Soda, Caustic—Not unlike the market situation current in soda ash. The entire absence of reserve stocks has forced consumers to depend upon production and this at present is insufficient to meet industrial requirements. The market may be described as exceedingly tight and firm and without prospect of nearby easement.

Sodium Chlorate—Following the strength recently noted in this market, higher prices have been established. The advance may be attributed to the steadily increasing costs of production resulting from mounting prices for labor and raw materials and an exceedingly heavy consuming demand. It is stated this is the first revision in producers' prices since 1932. The advance is equivalent to a half cent per pound which places the carlot price at 6¾c. per pound for crystals in drums and at 7c. to 8c. for smaller lots depending upon the size of order. Powdered in kegs is also higher at 8c. to 8½c. per pound depending upon the quantity involved. All prices are f.o.b. the works.

Sodium Nitrite—Inquiry for uses in dyestuffs has held at a satisfactory level with demand from meat packers showing a tendency to increase. So far, producers have been able to meet these requirements for nitrite without much difficulty. Prices have continued firm at former levels with prompt shipments available.

Sodium Sulphide—Shortage of available stocks has kept the market position exceedingly tight. In some producing quarters, output has been cut back by plant difficulties. Consuming demand has continued active and is said to be considerably ahead of current production. Contract prices are firm at the late advance.

Sodium Tungstate—Continued shortage of tungsten ore has been reflected in a limited production of sodium tungstate. There is not much material available at the present time and the market is firm at $1.45 per pound works. Importations of tungsten ore last week were listed at 1,999 bags.

Sulphur Chloride—Prices have been advanced by a leading producer establishing the market at a slightly higher level. The market is now quoted at 3¼c. per pound for 55 gallon drums, carlots and at 4¼c. for less. Ten gallon drums are priced at 7¼c. per pound for carlots and at 8¼c. per pound for less. All prices are f.o.b. the works.

Zinc Sulphate—Gradual improvement was reported in demand for prompt shipment. Production has been sustained at a level to meet requirements and buyers have not

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found available stocks a problem so far this Fall.

Acids

Chromic—As a result of the advance in the price of sodium bichromate, higher quotations have been named for chromic acid. The market for drums in carlots is now established at 21¾c. per pound and at 22¼c. to 22¾c. per pound for smaller lots, f.o.b. the works.

Hydrofluosilicic — Consumers have continued to receive prompt shipments of this acid. Current production has kept the supply situation favorable and buyers have not experienced difficulty in covering requirements.

Lactic—Production has not been sufficient to meet all requirements for this acid. The essential wants of regular consumers are said to be covered, but stocks have not been sufficient to meet all additional wants.

Nitric—Output has continued keyed to regular consuming requirements without leaving much over. The market is described as firm at former selling levels.

Oxalic—Advance of the month has not uncovered any improvement in supply conditions of oxalic acid. Current production is insufficient to meet the broad consuming demand and the continued shortage of stocks has kept the market in a definitely tight position.

Sulphuric—Aside from a tankcar shortage, the market appeared to show a satisfactory degree of balance. There was no evidence of excessive stocks and it appeared that current production is finding a ready industrial outlet. An increase in tankcars would insure a more regular distribution to consumers situated at distant points from supply sources.

Non-Ferrous Metals

Antimony — Government controls over antimony have been amended by the Office of Materials Distribution. Conservation order M-112 now states that application to OMD is no longer required for permission to ship antimony including exports. The OMD will issue licenses to export antimony against an overall export quota, but the exporter need no longer apply to OMD for authority to ship since, like others, he must have authorization to receive the material. Another change in the order relieves an applicant from naming his supplier. Upon receipt of his authorization he is free now to buy material from any commercial sources he wishes.

Copper—This market is said to be deriving most of its support from the wire mills. Demand from other sources is moderate and rather irregular. Some fabricators can note some expansion over the Summer volume of business while others say there is no improvement. The inquiry from the brass mills has continued at a relatively low level.

Lead—Consumers have most of the stocks made available for September under contract and it is stated that nearly half of October's stocks have been booked for shipment. No change from former price levels has been announced.

Quicksilver—Spot quotations eased and declined, establishing $83 to $84 per flask as the going prices in a rather narrow and generally inactive market. European prices were down to a moderate extent in the recent past. Domestic metal held steady for the most part was not offered in more than moderate amounts.

San Francisco, Sept. 11.—Buying interest was dropped. Metal was quoted between $82.50 off here this week, supplies short. Prices and $83.50 per flask, f.o.b. San Francisco.

Silver—Market prices showed more regularity last week. The official quotation at the close was 70½c. per ounce.

Silver Bullion Price Range

	Per ounce—	
	New York	London
High	Mar. 6—80¾c.	Jan. 2—55½d.
Low	June 20—59⅜c.	June 20—39d.

Tin—According to Office of Materials Distribution's quarterly tin report, imports of new tin during the second quarter amounted to 6,581 tons, consisting of 6,051 tons of tin in concentrate and 530 tons of pig tin. In addition, domestic production of pig tin from detinning tinplate scrap and used cans amounted to 675 tons, and receipts of tin alloy scrap totalled 5,689 tons, making total available supplies during the quarter 12,945 tons. During the same period consumption totalled 21,536 tons, compared with 22,780 tons during the first quarter and 21,418 tons in the corresponding quarter a year ago. Significant during the quarter was the falling off in almost all categories of consumption, except tinplate. Sharp declines occurred in consumption of tin for copper base alloys, solder, and bearing metal, indicating that the peak of demand for these items within the limits imposed by specification controls has passed, and that pipelines have to a large extent been completed. The increased demand for tinplate production was largely seasonal. To date, steel rather than tin has been the limiting factor for this item. Under Orders M-43 and M-81, consumption of tin will be permitted to remain at approximately first and second quarter levels for the remainder of the year. Anticipated deficits in new supply will be absorbed by remaining government stocks.

Zinc—According to the American Zinc Institute, domestic shipments of zinc in August amounted to 52,132 tons, or about 7,300 tons better than in July, but export shipments declined about 9,450 tons to a total of only 5,487 tons. These exports are the smallest to be reported since October, 1946, when they amounted to 2,248 tons. In addition to the combined domestic and export shipments, 2,034 tons of zinc were transferred from the Office of Metals Reserve stockpile to the permanent government stockpile held by the Army and Navy Munitions Board. This is the first transferral of that nature to take place since September last year. In the whole year 1946 a total of 62,007 tons were similarly transferred to the permanent stockpile. Current business during the week uncovered no special features. Prices were unchanged with the movement of stocks more or less routine.

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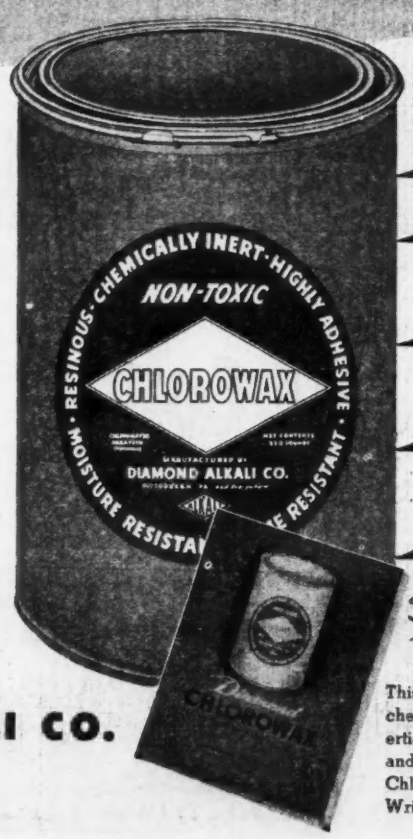

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German Processes Available In Translated Reports

OPD Washington Bureau

Ten translations of wartime reports, covering varying aspects of I. G. Farbenindustrie investigations in the fields of organic chemistry have been made available by the Office of Technical Services, Department of Commerce. The titles and prices of the various reports are:—

PB-790-t, "The Preparation of Hemellitol (1.2.3-trimethylbenzene)," two pages, $2.

PB-728-t, "Acrylic and Methacrylic Acid —Cyano Alkyl Esters," three pages, $2.

PB-608-t, "Some Investigations in the Field of Oxo-Reactions," six pages, $3.

PB-767-t, "The Preparation of Vinyl Solfones," two pages, $2.

PB-691-t, "The Preparation of Ether and Polyether Diamines," four pages, $3.

PB-610-t, "The Derivatives of Gamma-Butyrolactone, Alpha - Pyrrolidone, and Gamma-Aminobutyric Acid," four pages, $3.

PB-765-t, "The Preparation and Properties of Beta-Trifluoromethyl Ethyl Alcohol and Tri-Fluoromethyl Acetic Acid," six pages, $3.

PB-686-t, "The Preparation of Vinylmethylketone from 1,3-Butyleneglycol by Dehydrogenation with Cuprous Oxide," nine pages, $3.

PB-748-t, "The Chemistry and Possible Applications of Intravan U (Fireproofing Agents)," seven pages, $3.

PB-745-t "The Preparation of Acrylic and Methacrylic Acid Amides and Esters," ten pages, $4.

These translations may be obtained at the above prices from Transervice, Box 647, Kingsport, Tenn., or the original German-language reports may be purchased from the Office of Technical Services, Department of Commerce, Washington 25, D. C., at $1 each for photostats only. Orders for the German-language documents should refer to the PB number, without the letter "t," and should be accompanied by check or money order payable to the Treasurer of the United States.

Dickerson Accepts Agency For Dried Natural Humus

The Dickerson Company, Philadelphia, has accepted the sales agency for distribution of dried natural humus produced by the Organic Earth Company, Indianapolis. The company is located in the Drexel building, Fifth and Chestnut streets, Philadelphia 6.

Chemo Puro in New Location

Chemo Puro Manufacturing Corporation, maker of pharmaceuticals, Long Island City, N. Y., has moved to a four-story building at 26-32 Skillman avenue in that city. The move incorporates plant, office, shipping and packing facilities under one roof. The telephone number remains Ironsides 6-7036.

Trade Briefs

Westvaco Chlorine Products Company, New York, has appointed W. Cameron Caswell to the position of manager of the sales service division.

Thermo Electric Manufacturing Company, Dubuque, Ia., has developed a new stepless input controller and temperature indicator to complement its line of electric furnaces and to satisfy the need for an instrument that will provide both variable control and indication of temperature.

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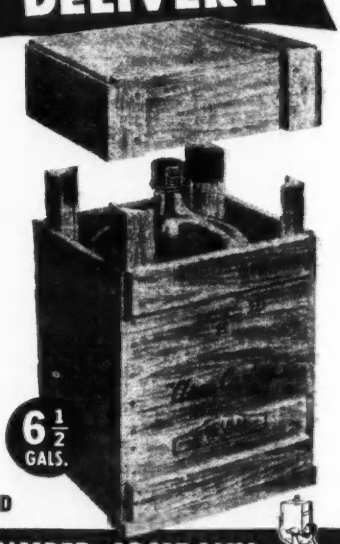

NATIONAL BOX & LUMBER COMPANY

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Advanced by J. T. Baker

C. H. Slater has been appointed general sales manager of J. T. Baker Chemical Company, Phillipsburg, N. J. In addition to his new duties, Mr. Slater will continue to devote a major portion of his time to the management of the fine chemicals division, where he was formerly sales manager.

Eastman Kodak Appoints Staud Research Lab Head

Eastman Kodak Company, Rochester, N. Y., has appointed Dr. Cyril J. Staud director of the Kodak research laboratory, and has named Dr. John A. Leermakers assistant director and head of the photographic theory department. Dr. C. E. K. Mees, founder and director of the laboratory since 1912, will continue as Kodak vice-president in charge of research.

Dr. Staud joined Kodak as a chemist in 1924 and became research supervisor on cellulose acetate and cellulose derivatives in the department of organic chemistry. In 1931 he was named head of the emulsion research laboratory and three years later was named acting director of the research laboratory. Dr. Leermakers joined Kodak in 1934 following two years as a national research fellow in chemistry at Harvard University. He was appointed supervisor of experimental emulsion making in 1938, assistant to the research director in 1942, and became technical assistant to the director in 1944.

Other appointments included Samuel W. Davidson, formerly administrative assistant to the director, as business manager of the laboratories; Dr. Walter Clark, formerly technical assistant to the director, head of the black-and-white photography department; Dr. W. O. Kenyon, formerly assistant superintendent of the organic research department, head of the high polymer department, and Dr. H. C. Yutzy, formerly assistant superintendent of emulsion research, head of the emulsion research department.

ATMS Publishes Data On pH Measurements

The American Society for Testing Materials has published a "Symposium on pH Measurement," which is composed of seven technical papers and discussions intended to present the latest theory and practice on colorimetric and potentiometric methods for making pH and closely related measurements.

Four broad topics are covered in the pamphlet: a history of the field; a discussion of fundamentals and the broad theoretical basis for pH determinations; recent advances in the principal methods and techniques, and applications to particular fields. Copies of the publication can be obtained from ASTM headquarters, 1916 Race street, Philadelphia 3, at $1.50 each.

Trade Briefs

Heyden Chemical Corporation, New York, plans to authorize 60,000 shares of new second preferred stock in order to raise from $6,000,000 to $10,000,000 for the expansion of the firm.

Schering Corporation, endocrine and chemotherapeutic products manufacturer, Bloomfield, N. J., to comply with the policy of the U. S. Veterans' Administration of keeping medical personnel abreast of progress in therapy and research, has contributed a series of technical exhibits, the first of which was recently displayed at Halloran Veterans' Hospital, Staten Island, N. Y.

War Dept. to Lease Niagara Chemical Plant

The chemical warfare division of the War Department is offering for lease the premises at 3163 Buffalo avenue, Niagara Falls, N. Y., according to an announcement made by Col. W. F. Heavey, district engineer, New York. The plant was formerly occupied as an industral plant by the division, and is said to be suitable for small scale manufacturing of specialty chemicals.

Bid forms and information can be obtained by writing to the real estate division, Corps of Engineers, 120 Wall street, New York 5. Sealed bids will be accepted until 2 p.m., October 20.

Hooker Transfers Glaze To N.Y. Sales Office

John M. Glaze, since last year associated with the home office sales department of the Hooker Electrochemical Company, Niagara Falls, N. Y., has been transferred to the New York sales office. Mr. Glaze, a graduate of Dartmouth, joined Hooker in 1942 as a process foreman in the research department.

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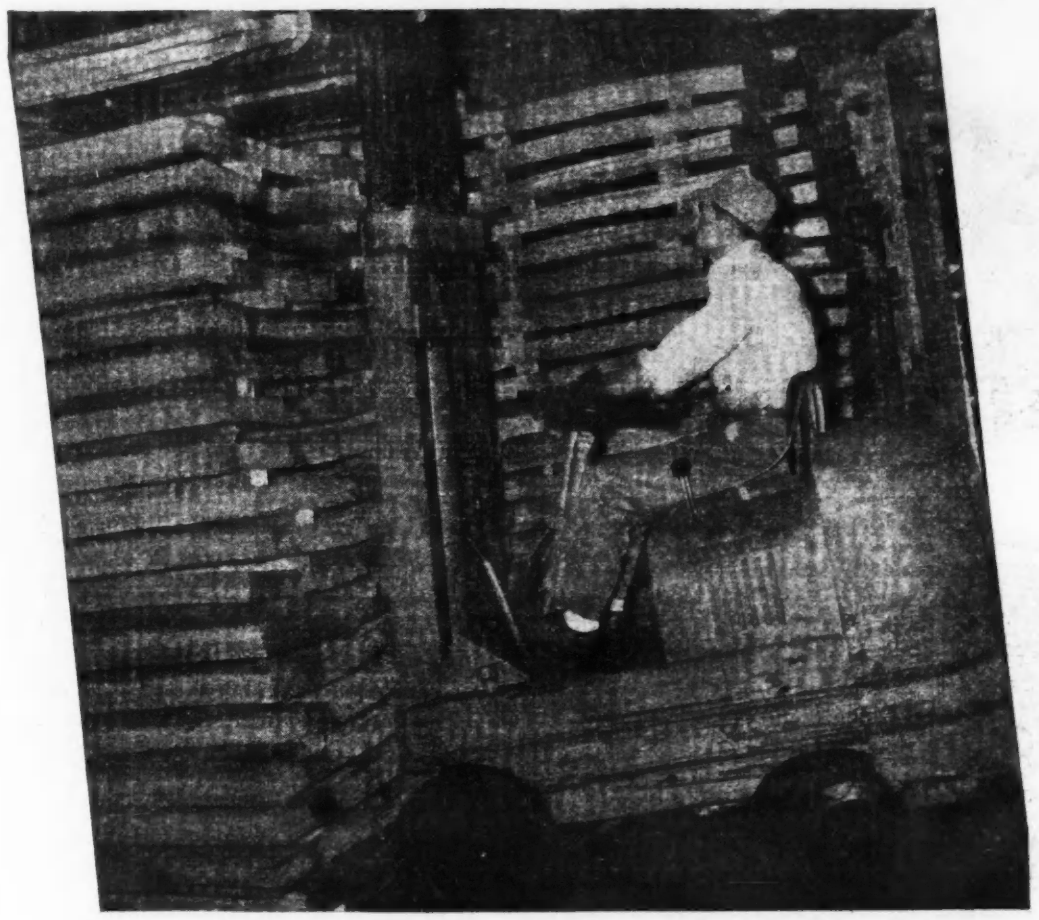

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National Public Purchasing

—Continued from page 7

port cases of suspected collusive bidding to the institute's Washington office for reference to proper authorities, and said that as a result of such reports Federal complaints are now pending against manufacturers of chlorinating equipment, fire alarm and mimeograph equipment, business forms and surgical dressings.

At a later session, Joseph H. Crowley, chief counsel, law department, City of Cleveland, said that the goal of purchasing officials now is the establishment of uniform purchasing laws in all state governmental buying agencies. He pointed out that new and uniform rules would simplify business transactions involving more than $3,000,000,000 annually.

Confusing Practices Studied

His declaration was made at the close of a series of panel discussions on a national survey of present confusing practices which was made by David Joseph, survey director of the organization. The survey had disclosed that only 27 percent of the participating purchasing agencies have interchangeable definitions of terms and standard nomenclature for products purchased.

In addition, wide divergencies in other practices were noted, which demonstrated to the buyers why some sellers find it necessary to maintain special sales departments familiar with all the peculiar terms and requirements of each of the different governmental divisions of state, county, city and Federal governments.

As an example, it was pointed out that in other than formal contracts with public letting, 138 out of 229 departments favored open market buying methods, 102 preferred informal bids, and nine used short form contracts. Other important divergencies of practice noted included:

Standard bidding lists are maintained by 59 percent; bids are tabulated at the time of reading by 58 percent; tabulations of bids are publicly displayed after opening by 44 percent; central warehousing control is maintained by 42 percent, and only 46 percent have purchasing procedure prescribed in statutes or ordinances.

Standards Bureau Active

In discussing "Sampling Plans in Purchase Specifications," E. U. Condon, director of National Bureau of Standards of the Department of Commerce, revealed that the bureau has recently established a division of commodity standards, which embraces the activities formerly handled in the divisions of simplified practice, trade standards, and codes and specifications, and which will give considerable attention to work on purchase specifications.

Enlarging on the necessity of sampling plans in purchase specifications, Mr. Condon said:—

"That the purchase specification should include a section dealing with test procedures has long been recognized and widely applied. But equally important as a part of the specification is an exact description of the rules by which samples for test are to be drawn from the offered lot, and the basis on which the lot is to be accepted or rejected as a result of inspection of the individual items in the sample.

Complete Inspection Undesirable

"Complete inspection, or screening, to sort the items into accepts and rejects, is seldom desirable. It is obviously undesirable when the test is destructive. It is economically undesirable even where the test is nondestructive because the risk of accepting some bad product may be worth taking to save on costs of inspection. Just how much inspection should be done may depend on other than economic factors. Safety is an especially important one. Obviously, a few bad nails in a barrel of nails will have no serious consequence other than the loss of the money value of the bad ones. But the failure of the safety belts worn by window washers in high buildings has more serious consequences than simply the loss of the money value of one safety belt.

"It is evident that inspection by samples cannot give exact information about the whole lot. But this does not mean that we therefore have to content ourselves with fuzzy and vague descriptions of the results of an inspection procedure. This is a problem which can be dealt with by the mathematical theory of probabilities, with the same sort of definite results which apply to the life insurance business, in spite of the unpredictability of the duration of the life of a particular individual.

Rules for Acceptance

"The function of the sampling plan is to lay down rules for the acceptance or rejection of lots of items, just as it is the function of the test procedures section to lay down rules for the acceptance or rejection of individual items.

"I hope that I have said enough to indicate to you the importance of having fully defined sampling plans laid down as part of the purchase specifications, and to have aroused your interest in learning more about some of the interesting analysis of specific plans that has been made during the war and will soon be available for general use. It is our hope to incorporate these features into the Federal specifications as rapidly as they can be worked out, for we are convinced that they can make a great contribution to improved purchasing techniques.

"Up to now so little attention has been given to the rationale and economics of inspection practice that very little data are available on the basis of which to make good judgments of a specific sort. But we must feel our way and learn by experience in order that this gap in our specification writing may be closed. We shall be very much interested in hearing from any of you who have had special experience in this field. It is my hope that progress will be sufficiently rapid so that at some future meeting of the Institute of Governmental Purchasing a symposium of papers on specific applications in this field might be presented."

Details of the purchasing procedures

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Silicone News

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DC Antifoam A in concentrations of 70 parts per million prevents foaming of rosin soap solutions.

When DC Antifoam A was first introduced, laboratory tests had indicated its ability to kill foam in a variety of aqueous solutions and emulsions even during steam distillation and vacuum evaporation. Since then it has been found effective in many laboratory procedures and in many plant operations.

DC Antifoam A in very low concentrations is now used to prevent foaming:

In Adhesives
In the Varnish and Lacquer Industries
In the processing of pharmaceuticals
In the distillation of alcohols
In the Rubber Industry. Specifically in the concentration of GRS., Neoprene and butadiene—styrene copolymers.

TYPICAL OF MANY REPORTS RECEIVED—
"We are using DC Antifoam A in a vacuum concentration of an alkaline aqueous protein solution. One ounce of DC Antifoam A replaces about 2 gallons of the foam inhibitor previously used and eliminates about ten man-hours of labor previously required to control the process."

In most cases the cost of using DC Antifoam A is negligible compared with savings in the materials being processed, in the time required for processing, and in the labor necessary to control the process. More data about DC Antifoam A is given in our new leaflet No. Z 6-4.

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which have been adopted by the United Nations Organization were given in an address by F. A. Mapes, director of the purchase and supply division of that body. He said that the method employed by the UN is almost identical with that used by Federal purchasers, and, as an illustration considered the purchasing of standard office equipment and supplies. He said:—

"The Federal buyer, and most buyers for public agencies, has his schedules for most of these needs. We do not except as we develop term contracts. But the action we take is similar to that which the Federal man would follow if the item were not obtainable from a schedule. We employ competitive bidding, designating the property desired and, except for items authorized on a proprietary basis, request quotations using detail specifications or the familiar term 'brand name or equal.'

"We send out formal proposals where quantities warrant and time permits. Or, if more expedient, letter bids are invited. For small quantities, generally less than $100 competitive bids are obtained by telephone.

"Telephone-one-bid-awards are made only where the article or service desired is proprietary or is handled by an exclusive dealer for a manufacturer."

President's Report

In presenting his annual report to the members, Mr. Pleydell took note of the fact that the institute had presented a plan to the Federal government designed to facilitate and regularize disposals of surplus property to state and local governments, but that it was not adopted or heeded. He said:—

"It was a good plan. It is as valid today as it was then. Had it been placed in effect, every unit of government in this country would have received its fair and equitable share of the property bought and paid for by all of the people. The failure of those in authority to utilize our plan did not daunt NIGP. We kept on coming and for three long years we have devoted daily attention to this important national problem.

"We know that with big government the problem of surplus and excess property will always be with us. We in NIGP have had under consideration for some months the establishment in the Federal structure of a permanent Federal Property Agency to continue disposal of war surplus and to provide centralized direction to the disposal of peace-time excesses which will be enormous in the future. Needless to say, we believe that public property should, after it is no longer useful to the Federal Government, be made available in a regular, systematic and equitable manner to state and local governments."

Officers Elected

New officers elected at the meeting were:—W. Z. Betz, director of purchases, North Carolina, president; Joseph W. Nicholson, purchasing agent for Milwaukee, and John Ward, assistant purchasing agent, Cook County, Chicago, vice-presidents, and Michael M. Donohue, purchasing agent, Allegheny County, Pa., treasurer.

Trade Briefs

American Cyanamid Company, Bound Brook, N. J., has published an illustrated pamphlet describing the company's laminating resins. Copies of the booklet may be obtained by writing to the plastics division, American Cyanamid Company, 30 Rockefeller Plaza, New York 20.

B. F. Goodrich Company, Akron, Ohio, in collaboration with an automobile manufacturer, has developed a new synthetic adhesive for anchoring automotive brake linings which is said to have more than twice the shear-resistance strength of brass rivets and to eliminate all danger of rivet scoring of brake drums.

Veterans Administration has announced that nearly 1,400 disabled veterans are learning skills and trades in the paint manufacturing field under Vocational Rehabilitation Act. Most of the men are taking on-the-job training with paint and varnish manufacturers with a few studying at trade and industrial schools.

Gypsum board and lath production during July was estimated at 320,000,000 square feet. This was 3 percent above the June production and was the largest in the history of the industry. Lath production in July, estimated at 144,000,000 square feet, was also an all-time high and now represents about 45 percent of the total gypsum board output.

J. M. Huber Corporation, ink and varnish manufacturer, New York, has developed a new bloom inhibitor, 'Natac,' which may be used for natural rubber and mixtures of natural rubber and GR-S. Information about the product may be obtained by writing to the firm at 342 Madison avenue, New York.

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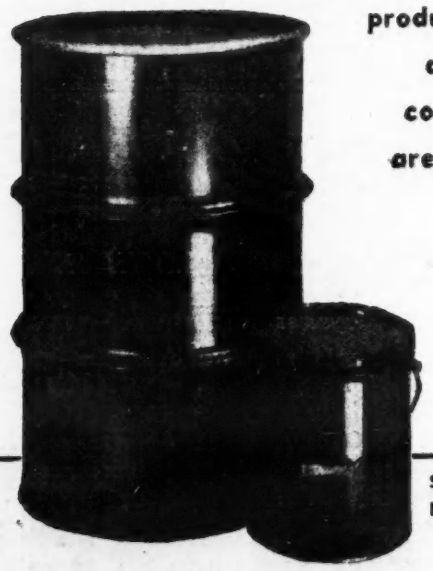

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German Emulsifying Agents Described in New Report

OPD Washington Bureau

The Office of Technical Services, Department of Commerce has published a report containing additional data on German chemical developments in emulsifying agents, which supplements an earlier one dealing with German emulsifying agents, wetting agents, detergents and soap substitutes.

The report states that emulsifiers soluble in oil have played an important role in Germany in recent years because of their quality, good performance and the ease with which they are removed, and they were manufactured on a large scale by I. G. Farbenindustrie.

The most important entirely synthetic emulsifiers discussed in the report are "Emulphor STL," a cyclohexylamine salt of "mepasin" penyl sulphonic acid, and "Emulphor STH," which is essentially the sodium salt of "mepasin" sulfamidbacetic acid. Both compounds were extensively used in the metals industry. Another emulsifier, "Emulphor STS" was used with great success in the German cloth industry, according to the report.

Orders for the report, PB-3867, "German Chemical Developments in Emulsifying Agents," photostat, $4, Microfilm, 50 cents, 47 pages, should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Tennessee Eastman Names New Canadian Dye Agent

Tennessee Eastman Corporation, New York, has named Clough Dyestuff Company, St. Laurent, Quebec, agent for the distribution of Eastman acetate dyestuffs in Canada. These materials were previously sold in Canada through the Canadian Kodak Company, Toronto.

Clough Dyestuff Company will maintain stocks of the dyes in Montreal to expedite deliveries of all standard types to dyers, and offers laboratory service, testing, shade matching and mill demonstrations. Sales territories covered by the company include the maritime provinces in the East, and the provinces of Quebec, Ontario, Manitoba and Vancouver.

Koenig Receives Post At Armour Foundation

Louis Koenig has been named chairman of chemistry and chemical engineering research at the Armour Research Foundation of the Illinois Institute of Technology. For the past two years he has been a chemical consultant in New York.

General Dyestuff Corp. Issues Three Dye Circulars

General Dyestuff Corporation, New York, has published three new circulars describing their products. They are:—G-476, Sudan Yellow GGA; G-478, Anthragen Yellow GKR Conc. Pdr.', and G-481, "Sudan Orange FL." Copies may be obtained from the company at 435 Hudson street, New York 14.

Interchemical Names Kahnhauser To New Sales Post in Philadelphia

Interchemical Corporation, New York, has appointed Charles F. Kahnhauser sales manager of the metal decorating products in the company's Philadelphia district. He started in the business in 1916 as a varnish salesman for Ault & Wiborg Company, Cincinnati, now a part of Interchemical. After sixteen years in the midwest he was transfered to Syracuse, N. Y., and in 1942 was sent to Philadelphia.

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Textile and Leather Chemicals

Steadily advancing grain prices resulted in a stronger tone in the sizing materials market last week and prices of corn and wheat starches were advanced fractionally. Consumers were reported taking the bulk of the production of cornstarch and dextrin against former orders. Inquiry for replacements was moderate, as inventories were said to be quite heavy in some quarters.

Production of potato starch was in full swing though Maine grinders limited offering to September shipment, while western mills were taking business for the next three months delivery. Tapioca flour was in steady request for supplies on the spot, while inquiry for replacements from Brazil was reported light.

Higher basic material and labor costs resulted in price advances for bichromates for spot and delivery during balance of the year. Potassium and sodium bichromate and sodium chromate were advanced ¾ cent per pound and chromic acid, 1¾ cents per pound.

Outside of an active inquiry for replacements of quebrecho extract and wattle bark and extract, the market for tanstuffs, was a dull and nominal affair last week. Tanners were reported to have sizeable inventories for most tanning materials for nearby requirements.

A sharp plunge in July exports of textiles was mainly responsible for the 7 percent decline of total United States overseas shipments in that month according to the Bureau of Census. Most marked decrease in the July figures is the $50,000,000 drop in shipments of textile fibres and manufactures—from $175,700,000 in June to $125,900,000 in July. Figures for the individual commodities are not complete, but indications are that exports of raw cotton, excluding linters, bore the brunt of the textile drop, falling from $49,700,000 to $12,600,000.

Chemicals

Acid, Chromic—Higher cost of basic materials was reflected in this material and prices were increased 1¾c. per pound. Acid, 99½-99¾ percent was quoted at 21¾c. per pound, drums, carlots, and 22¼c. to 23¼c. for smaller quantities.

Aluminum Acetate—Light supplies continued to keep this market in a firm position. Demand was fairly active and on a par with production.

Bichromates—As a result of the higher cost of raw materials and labor, prices of potassium and sodium bichromates and chromate of soda were increased ¾c. per pound for immediate delivery and for the balance of the year. Sodium bichromate was quoted at 9c. per pound, bags, carlots, and 9⅛c. to 9⅜c., lesser quantities; potassium bichromate, 11½c. per pound, carlots, and 11⅝c. to 11⅞c. for smaller quantities and sodium chromate, 10⅝c. per pound, drums or barrels, carlots and 10¾c. to 11c. lesser quantities.

Chrome Acetate—This market was firm and unchanged, but reflected the increased cost of basic materials. Demand was moderate mainly for prompt delivery.

Sodium, Acetate — Conditions remained steady under a good demand which balanced the output. Prices were unchanged and well maintained.

Soda, Hydrosulphite—Inquiry was reported more active for requirements during the balance of the year. Prices were steady and unchanged.

Sulphonated Oils—Increased cost of tallow created a stronger tone in sulphonated grades. Prices were quoted for 25 percent at 8c. to 8½c. per pound, drums, as to quantity and 50 percent, 11c. to 11½c., same basis. Trading was moderate. Sulphonated castor oil was in fair request and was well held at former levels.

Sizing Materials

Albumen, Egg—This market continued strong as a result of higher cost of production and steadily diminished supplies. Reports from the West indicated that light production has been sold up and limited available stocks were firmly held. Edible flake ranged from $2.30 to $2.35 per pound, barrels, with sales reported at this level, depending upon quality and quantity. Supplies of technical were scarce and the market was entirely nominal at $1.15 to $1.25 per pound, as to seller, with the price tending upward. According to the Bureau of Agricultural Economics, egg prices are expected to stay substantially above 1946, if consumer incomes continue high and meat prices remain a near record. Supplies of eggs are likely to be somewhat below last year, primarily because of very low cold storage stocks of shell eggs.

Albumin, Blood—Demand was moderate and chiefly for prompt needs. Market remained steady at current quotations. Supplies were reported fairly liberal and were adequate to cover consuming requirements.

Corn Sugar—Consumers absorbed fair sized quantities against former orders. Prices were advanced 40c. per 100 pounds.

Dextrin, Corn—High cost of corn continued to give this market a stronger tone. Consumers absorbed the bulk of production against former orders. Prices were boosted 25c. per 100 pounds for all grades.

Egg, Yolk—Trading was restricted to small lots for actual needs. Market, however, continued strong in view of the light available supplies and the higher cost of eggs. Prices ranged from $1.20 to $1.25 per pound, according to quantity. Tanners yolk was unchanged at 5½c. to 7c. per pound, as to quantity.

Starch, Corn—Increased cost of corn, resulted in an increase of 25c. per 100 pounds for all grades. Deliveries were in active call against former orders. Visible corn supply was lower and declined 1,654,000 bushels to 6,650,000 bushels for the week ended September 5, compared with 9,443,000 bushels for the same period last year, according to the Chicago Board of Trade.

Starch, Potato—Consuming inquiry was fairly active for prompt and nearby requirements. Trading was light and spotty. Market remained steady and reflected the firmness in competing starches. Production in Maine has been started but grinders limited offerings to September shipment at 8.20c. per pound, carlots, New York delivery. Starch produced in Idaho was unchanged at 7.91c. per pound, carlots, New York basis for September-November shipment.

Starch, Wheat—Demand was moderate, mainly for prompt requirements. Market was firm and reflected the higher cost of wheat. Quotations were advanced 25c. per 100 pounds.

Tapioca Flour—Demand was reported mainly for supplies on the spot. Market was steady at unchanged quotations. High grades were quoted at 8¼c. to 9c. per pound and medium, 7¼c. to 7¾c., depending upon quantity. Trading for shipment from Brazil, was light and spasmodic. Prices for shipment were reported unchanged, though offers were made more freely. Arrivals were heavy at New York last week and totaled 39,200 bags for delivery on prior contracts.

Tanning Materials

Chestnut Extract — Consuming inquiry was reported improved, chiefly for prompt delivery. Market was unchanged at current quotations.

Divi-Divi—Trading was quiet though a fair inquiry was noted for nearby delivery. Offers for shipment continued light and were maintained at former levels.

Mangrove Bark—Arrivals of bark totaled 2,270 bales at New York last week for consignment against former contracts. Primary markets were reported firm and unchanged.

Myrobalans—Demand for replacements was light and spotty. Shipments were reported fairly steady, with offers fairly liberal. Quotations for shipment were unchanged and more or less nominal. Imports were reported at 700 bags at New York for delivery against previous contracts.

Quebracho Extract—Firmness continued to feature this market. Offers for shipment were moderate and were well maintained at former levels. Consuming inquiry was reported active for nearby requirements. Arrivals were noted at 5,565 bags at New York last week for delivery on prior orders.

Wattle Extract—Offers for shipment continued scarce. Tanners were in the market for nearby and forward delivery. Trading was spasmodic, because of limited offers. Prices were unchanged and firm. Arrivals of wattle bark totaled 3,330 bales at New York and 3,240 bales at Philadelphia last week and were delivered on former contracts.

Market Trends

Prices Advanced

Acid, chromic, 1¾c. per lb.
Corn dextrin, 25c. per 100 lbs.
starch, 25c. per 100 lbs.
Potassium, bichromate, ¾c. per lb.
Sodium, bichromate, ¾c. per lb.
chromate, ¾c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
332.3	332.1	322.8	296.2

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

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Coaltar Chemicals

The railroad strike affecting the plants of a large steel producing company in the Midwest sent the week's steel operations skidding to a recent new low 8.1 percent below the previous week's schedules. Not since July 7 when the coal holiday had the steel mills down to 78.9 percent of rated capacity, has the industry dropped so low as the present 84.3 percent. This drop will be reflected later in the production of coaltar chemicals when the resulting shortage of basics will affect output.

Price rises in the dye industry were announced last week by some producers, and one producer announced an across the board rise of 10 percent effective October 1. These announced price advances reflect the recent advances that were made in benzylic and naphthylic dye intermediates, the increase in caustic soda and other chemicals. A contributary factor in the rise was increased labor costs.

Another major producer advanced such dyestuff intermediates as anthranilic acid, G salt, gamma and Laurents acid roughly 10 percent. Included in this rise were alphanaphthol, betanaphthylamine and paraaminobenzoic acid.

While phenol showed some slight easement in supply, they were in no sense described as free. Cresols, cresylic acid, naphthalene, and coaltar were still tight as usual. Benzol, toluol, and xylol were much more freely available and in general were sufficient to meet demand.

Anthranilic acid was in short supply which could be traced to the shortage of phthalic anhydride stemming from insufficient supplies of naphthalene.

Aminobiphenyl and dinitrobenzene were in fair supply and not considered as one of the critical items. Chlorinated benzenes, chlorinated phenols, and chlorinated anilins were being sold at firm prices under heavy demand and were in short supply due in part to the short chlorine situation arising from a lack of transportation and storage vessels.

Phthalic anhydride prices continued to be spread between 14½ and 17½ cents per pound, freight allowed, in carlot quantities. Demand from the synthetic resin, dyestuffs, and other industries was sufficient that all material that could be made was being sold regardless of the price level.

According to the American Iron and Steel Institute, steel operations for the week beginning September 8 were 84.3 percent of ingot capacity. One week ago the scheduled rate was 92.4 percent and one month ago it was set at 93.2 percent. During the week of September 9, 1946 the scheduled rate was 88.5 percent of ingot capacity. This is equivalent to current production of 1,475,200 net tons of steel ingots and castings, compared with 1,616,900 tons last week, and with 1,630,900 tons last month. Production one year ago was 1,559,700 net tons.

Production figures appearing below, unless otherwise designated, are from the Chemical Division of the Tariff Commission and refer to coaltar distillates.

Market Trends

Prices Advanced

Acid, anthranilic, 10c. per lb.
gamma, 10c. per lb.
Laurents, 7c. per lb.
Paraaminobenzoic, tech., 15c. per lb.
Alphanaphthol, 7c. per lb.
Betanaphthylamine, 3c. per lb.
Dianisidine, 10c. per lb.
G salt, 5c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
134.8	134.8	134.8	128.2

(For Current Prices see Page 9)

Basic Products

Benzol—A leading producer of benzol has announced a price advance of 2 cents per gallon in industrial benzol effective October 1. The new price will be 21 cents per gallon in tankcars, freight allowed up to 2 cents per gallon.

Production during June of benzol by coke-oven operators totaled 1,339,105 gallons of the motor grade and 11,332,667 gallons of all other grades. In addition to this, tar distillers and petroleum sources accounted for 1,502,568 gallons. This brought the total benzol production for June to 14,174,340 gallons, a decrease under the May total by 2,203,453 gallons.

Coaltar—The coaltar shortage persisted causing a condition of insufficient supply under heavy demand. Prices were unchanged.

Cresol—Supplies of cresol were deficient under heavy demand from the synthetic resin and other industries. Some 38 drums were imported from London last week. British exports of cresylic compounds have failed to reach more than a fraction of their prewar exports, and this condition is currently being augmented by the coal strike of thousands of British miners.

June production of meta-para cresols from all sources totaled 640,183 pounds. Total production of the mixed orthometa-para material amounted to 730,111 pounds. These figures are very considerably under production during May, and during April at which time production of cresol hit the peak for this year.

Cresylic Acid—Imports of cresylic acid from Britain dropped to 770 barrels last week, arriving from London and Liverpool. This represents a drop of approximately 25 percent under the weekly average over the last few months.

Supplies of cresylic acid remained extremely acute at firm prices under heavy demand.

June production of domestic acid fell below the 2,000,000 pound mark for the first time this year, amounting to 1,908,809 pounds. This figure includes total production from all sources.

Naphthalene—June production of naphthalene dropped under the preceding month by only 694,565 pounds. A drop of some 3,000,000 pounds by the tar distillers of the less than 79 degree solidifying grades was offset by increased production of coke-oven operators, and stepped up production of higher than 79 degree grades by tar distillers. Of most significant industrial use are the lower melting point grades, which had a total production of 27,131,963 pounds from all sources.

Prices remained unchanged under a demand that continued to exceed supply.

Phenol—The phenol market continued to show some easement last week with respect to supply. Prices were holding firm in the range of 11c. to 11¾c. per pound in tankcars for the 90 to 92 percent grade, 11½c. to 12c. per pound for the 82 to 84 percent grade, and 10½c. to 11½c. per pound for the USP grade.

The bulk of phenol made in this country is made synthetically, which is a lower cost operation than making it from natural sources. In Europe the bulk of the phenol produced is from natural sources. Consequently, whereas in Europe phenol is higher priced than cresol, in the American market cresol is higher priced than phenol.

Pyridine—Industrial grades of pyridin were very short and under heavy demand at firm prices.

Toluol—Toluol supply and demand were reported to be essentially in balance, but demand from all sides held inventories to a minimum.

Xylol—June production of xylol from all sources totaled some 2,314,004 gallons. Prices were firm. Supplies were sufficient to meet demand, although lack of shipping space was delaying some deliveries.

Coke By-Products

Estimates of by-product cokeoven operations in the week ended September 6 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,123,584
Ammonia sulphate	lbs.	29,094,912
Benzol	gals.	3,666,432
Coaltar	gals.	13,601,280
Creosote oil	gals.	756,940
Naphthalene, crude	lbs.	1,807,734
Phenol	lbs.	212,889
Toluol	gals.	733,286
Xylol	gals.	165,580

Dyes

C.I. 202, Chrome Blue Black R—Production during June advanced to 122,813 pounds from the 117,838 pounds produced during May.

C.I. 581 Direct Black EW—In line with the increased production rate of the dye industry, June production totaled 937,576 pounds, exceeding May production by 86,211 pounds.

C.I. 1114 Anthraquinone Vat Blue BCS—Production during June of the 20 percent dye amounted to 104,306 pounds.

F.P. 302 Naphthol AS — Some 78,268 pounds of this dye were produced during June, as compared to 57,151 pounds during May.

Dye producers are announcing price rises

For Late Market Developments, See Page 4

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on certain dyes, and one major producer has announced a 10 percent price rise across the board covering every item in their line effective October 1. These price rises are a reflection of increased material and labor costs. Material costs which have risen in recent weeks and have an important bearing on the dye industry are benzylic intermediates, intermediates based on naphthalene, and caustic soda.

Other Intermediates

Acid, Anthranilic—The shortage of phthalic anhydride was attributed as the cause for the tight supply situation on anthranilic acid. Prices ranged from 90c. per pound to $1.35. Demand was heavy in a tight market.

Aminobiphenyl, Ortho—Demand from the dyestuffs industry was sufficient to make supplies of orthoaminobiphenyl fairly available. Prices in the range of 23¼c. in carlots and 24c. per pound in less than carlots prevailed in the market last week. No immediate change was contemplated, and a tankcar price of 22c. per pound was considered as stable.

Benzyl Chloride—Demand for benzyl chloride from the dyestuffs, perfume, synthetic plasticizer, and rubber industries was such as to make the market extremely tight last week. Prices held firm in the range of 20½c. to 21c. per pound.

Benzotrichloride—This dyestuff intermediate was under heavy demand and in short supply, creating a seller's market, in which firm prices prevailed.

Chloroanilin—Ortho, meta, and para chloroanilin were reported to be in tight supply from the heavy demand for them stemming from the dyestuffs industry. Material was being shipped as rapidly as it could be made against a backlog of orders. Prices held firm at 60c. per pound in drum lots for the orthochloroanilin, 55c. per pound for lots of 2 drums or over, and 53c. per pound in lots of 10,000 pounds or over.

Metachloroanilin was priced at 65c. per pound, f.o.b. works, and parachloroanilin was listed at 65c. per pound, freight allowed east of the Mississippi.

Chlorophenol—Ortho and para chlorophenols were scarce dyestuffs intermediates last week. While the pressure on phenol had eased somewhat, it could not be described as free, and chlorine was short, due to lack of transportation and storage facilities. Added to this was a heavy demand, creating a generally tight market situation. Occasionally there was some spot material available, resulting from a customer not buying his full quota, but these occasions were rare. Prices meanwhile held firm.

Dichloroanilin—Supplies of dichloroanilin were in quite the same tight supply position as the chloroanilin, and for the same reasons of heavy demand, limited raw materials and production capacity. Prices were unchanged.

Dichlorobenzene—Demand for paradichlorobenzene continued heavy from the insecticide, fungicide, dyestuffs, mothproofing and larvacide industries. The market situation was described as tight, despite large volume production. Prices were firm.

Orthodichlorobenzene was in a tight supply position under demand from the insecticide, fungicide, dyestuffs and cleaning compound industries, as well as those industries in which this material acts as a special solvent. Prices were unchanged. The short market was due for some relief in the very near future from production of a large chemical manufacturer about to enter this field.

Dialkyl Phthalates—The price structure on methyl, ethyl, butyl and amyl substituted phthalates remained essentially unchanged after the recent price rises of about one month ago. Supplies, however, were short, and this situation was expected to become aggravated during the next few months by virtue of the wider plasticizer demands of the plastics industry.

Dinitroanilin—This dyestuffs intermediate was reported to be in somewhat better supply than most of the other important dyestuffs intermediates. Producers were selling all that they made, but were operating under considerably less pressure than was the case with the chlorinated compounds.

Phthalic Anhydride—Supplies of phthalic anhydride continued to be short and were being shipped against orders and contracts as fast as producers could manufacture it. No immediate change in the supply picture could be anticipated.

The price structure still ranged from 14½c. to 17½c. per pound in carlot quantities, freight allowed. Regardless of the price, the material was being bought without any hedging from all sources.

Trichlorobenzene—This chemical, used in organic syntheses as a solvent and as an insecticide, was reported in short supply last week, at firm prices. There was no evidence of a slackening demand.

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German Synthetic Phenol Production Described

OPD Washington Bureau

A comparative study of three processes used in Germany for manufacturing synthetic phenol and a description of the manufacture of chlorobenzene at I. G. Farben plants are contained in a report now on sale by the office of technical services of the Department of Commerce. Three of the five parts of the report are devoted to the phenol manufacturing processes, and two to chlorobenzene manufacturing.

The report states that many good engineering features were noted by the investigators in the chlorination plant at Leverkusen. It notes that the high pressure reactor was easily controlled and relatively free from operating trouble, and that some interesting fabrication techniques for nickel-lined high pressure fittings were examined. Phenol recovery from the aqueous layer required a minimum amount of steam and appeared very efficient, it states.

Orders for the report, PB-76032, "Phenol Manufacture in Germany"; photostat $5; microfilm, $2; 64 pages; should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States. It is also available in mimeographed form from the Hobart Publishing Company, Box 4127, Chevy Chase Branch, Washington 25, D. C., for $4.50 per copy.

Other reports relating to this subject which are available from the Office of Technical Services include:—PB-49272, "I. G. F. Leverkusen, Salycylic Acid, Sodium Salicylate, Synthetic Phenol"; PB-6687, "I. G. F. A. G. Leverkusen, Germany"; PB-224, "Dr. Raschig, G. M. B. H.—Chemische Fabrik Ludwigshafen am Rhein"; PB-28887, "Dr. F. Raschig, G. M. B. H. Chemische Fabrik, Ludwigshafen," and PB-33270, "The German High Temperature Coaltar Industry."

Phosphate Shortage in Europe Described by Louis Ware

A shortage of phosphate for the production of food has greatly hampered the progress of the nations of western Europe in its recovery from the war, according to Louis Ware, president of International Minerals & Chemical Corporation, Chicago, who has just returned from a business trip through five countries of Europe.

Mr. Ware declared that the primary needs of Europe are coal and food. United States production of phosphate this year is expected to be 7,000,000 tons, about twice the amount of normal annual pre-war production. The problems of supplying the phosphate to Europe include lack of transportation, high shipping costs and the lack of labor and equipment on European farms, he said.

Oronite to Increase Phthalic Anhydride Output

Oronite Chemical Company, San Francisco, has announced a plant expansion program calculated to double its present production rate of phthalic anhydride. Construction of additions to the company's Richmond, Calif., plant is expected to be started within the next few weeks, and the increased output is expected to be available during the first half of next year.

Carnegie-Illinois Steel Finishes Rebuilding Coke Ovens

Carnegie-Illinois Steel Corporation, Pittsburgh, Pa., has completed the rebuilding of the ovens of its No. 21 battery at the Clairton works. It is expected that the first coke pushed from the ovens will substantially relieve the current coke shortage that has curtailed blast furnace production in the Pittsburgh district.

Chilean Nitrate Corp. Names Graves Traffic Manager

The Chilean Nitrate Sales Corporation, New York, has appointed J. Hinton Graves jr., general traffic manager, and has named John M. Wallach assistant traffic manager. Mr. Graves has been serving as assistant traffic manager since February, 1939, and Mr. Wallach has been a member of the traffic department since November of that year.

Monsanto Advances Parish

Monsanto Chemical Company, St. Louis, has appointed C. L. Parish maintenance superintendent of its phosphate division plant at Anniston, Ala. With the company since 1938, Mr. Parish has been serving as electrical engineer at the Anniston plant.

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Agricultural Chemicals

Ammonium sulphate prices have finally settled at a higher selling level and quotations have narrowed down considerably. Production of this material along with potash and superphosphate has been heavily sold on contract, and shipments during the week were confined almost entirely to scheduled requirements. Higher prices for coke, coal, labor and other materials essential to production have resulted in an advance in domestic sodium nitrate of $5.00 per ton, effective October 1.

Dried blood and animal tankage have been advanced with Chicago taking the lead in the upward movement. The high prevailing prices for grain and other stock foods have exerted a stimulating influence on demand. For the same reasons an increased buying movement has developed in fish meal and fish scrap and final prices showed advances in both products.

Buying interest has subsided in the insecticide market. Supply conditions have improved in DDT and benzene hexachloride. The latter has assumed a more competitive position, with some producers reducing prices and offering prompt shipments.

Exports of fertilizers and fertilizer materials for the fiscal year ended June 30, 1947, amounted to 1,392,000 short tons with a value of $27,505,000, according to statistics compiled by The Nationl Fertilizer Association from records of the Department of Commerce. Compared with the two preceding fiscal years, exports were 7 percent greater than the 1,306,000 tons reported for 1945-46, and 82 percent greater than the 764,000 tons shipped during 1944-45.

During the recently completed fiscal year, exports of phosphate rock, amounting to 788,000 tons, comprised 57 percent of total exports, compared with 54 percent and 55 percent respectively in the 1945-46 and 1944-45 fiscal years. Exports of nitrogenous materials, amounting to 15 percent of total exports, increased 5 percent over July-June, 1945-46, while shipments of potash materials, amounting to 7 percent of total exports, were 4 percent below the 106.000 tons shipped during July-June, 1945-46.

Imports of fertilizers and fertilizer materials for the fiscal year ended this past June 30 amounted to 1,193,000 short tons, with a value of $40,684,000. Compared with the 1,352,000 tons imported during 1945-46, imports were 12 percent lower, and compared with 1944-45 they were 33 percent lower. Although the import tonnage of the past fiscal year was noticeably below that of the 1945-46 period, the value was 8 percent greater.

Nitrogenates

Ammonium Nitrate—Canadian material has remained firm and tight with contracts held at $62.75 per ton works in paper bags, the same price that was registered in July.

Ammonium Sulphate—Considerable tonnage has been sold on the basis of $35 per ton bulk at the ovens and this is the lowest price named by producers. The market ranges from $35 to $38 per ton, according to the seller. Demand has been heavy enough to hold the supply situation tight. Importations for the year from July 1, 1946, through June, 1947, amounted to 99,484 tons, compared with 125,291 tons for the corresponding period in the preceding year.

Bone Meal—Moderate buying interest was noted from both feed and fertilizer interests although demand was not sufficient to advance prices. The steamed grade commanded the most attention.

Castor Pomace—Last sales reported were at $40 per ton. No additional offerings reached the market last week.

Dried Blood—Buying for feed use has forced the market higher in Chicago where sales were reported at $8.40 per unit of ammonia. The local price range for the week was from $7.50 to $8, with trading quiet.

Fish Meal—The firmer tone previously reported has resulted in the establishment of higher prices. Sales of ground 60 percent protein in bags were reported at $130 per ton in the Baltimore area. Scrap in that section was also higher at $120 per ton. Rising prices for grain and other feeding materials have increased the demand for fish scrap and meal.

Hoof Meal—Limited quantities of this material were available at $7 per unit of ammonia. Buying interest was relatively quiet all week.

Market Trends

Prices Advanced

Ammonium sulphate, $5 per ton.
Dried blood, 25c. per unit of ammonia.
Fish meal, $5 per ton.
Fish scrap, $10 per ton.
Tankage, Chicago, $1 per unit of ammonia.

Prices Reduced

Benzene hexachloride, tech., 2c. per lb.
dry dust, 50 percent, 4.4c. per lb.
wet dust, 50 percent, 9c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.8	71.6	71.6	72.1

(For Current Prices see Page 9)

Sodium Nitrate—Market situation continued firm and tight. Domestic nitrate will be advanced $5.00 per ton October 1. Importations from July 1, 1946, through June 1, 1947, amounted to 474,053 tons, compared with $615,343 tons for the same period in the previous year.

Tankage—Sales in Chicago were reported at $10 per unit of ammonia which is a net advance of $1. Last sales recorded in the local market were at $8.75. The local position was decidedly firm in view of the strength at primary supply sources.

Phosphates

Phosphate Rock—Exports of phosphate rock in June amounted to 79,333 tons and included 73 tons of Florida high-grade rock, 39,523 tons of land-pebble, 19,825 tons of other rock and 19,912 tons of Tennessee, Idaho and Montana rock. The total for the same month last year was 58,841 tons. The total amount exported during the period from July, 1946, through June, 1947, was 787,611 tons, compared with 705,767 tons for the corresponding time in 1945-1946. Present demand for home and export has continued to tax current production and the overall market position is described as tight.

Superphosphate—Contract shipments have kept relatively close to current production and buying conditions have remained tight so far this month. The export movement in June included 15,322 tons of normal, 532 tons of concentrated and 167 tons of other phosphate materials. Combined exports for the same month last year were 17,547 tons. Total exports for the year from July 1, 1946 to June 30, 1947 amounted to 248,230 tons, compared with 267,241 tons for the same period in 1945-1946.

Potashes

Maintenance of active demand has kept buying conditions exceedingly tight with buyers endeavoring to increase commitments. The pressure has been for prompt shipments with the disposition to ask for October and November deliveries ahead of schedule. June exports of muriate were placed at 5,144 tons, compared with 3,808 tons for the same month in 1946. Total exports of muriate for the year covering July 1, 1946 through June, 1947 were 82,958 tons, against 87,563 tons for the corresponding period in the preceding year.

Insecticides

Current trade reports show irregularity regarding the season's sales of insecticides. Unfavorable weather conditions up to June were followed by favorable weather in most sections. This resulted in spasmodic buying periods. The overall market was a weather affair which averaged against serious infestations and made supplies stretch further than had been generally expected. The late blights in the potato and tomato crops brought out a heavy demand for copper sulphate and copper compounds. The carry-over of stocks is said to be shorter in the East than in the West, although it is not believed that general inventories are heavy.

Benzene Hexachloride—Competitive influences were the primary cause of lower prices being named by some producers of this material. The lowest prices heard for technical 11 to 13 percent gamma were 42c. per pound, drums in carlots and 43c. per pound for smaller quantities. Dry dust 50 percent was priced at 33c. per pound in drums, carlots and 34c. to 35c. for less and wet dust 50 percent at 34c. in drums, carlots and 35c. to 36c. per pound for less. These are consumers' prices and all are f.o.b. the works. Demand has subsided to some extent owing to the off season. In one producing quarter it was stated that stocks were about equal to demand while in others, the supply was reported rather free with stocks available for prompt shipment. Preliminary reports from experimental stations note satisfactory results. In treating cattle and other live stock for flies and other insect pests and mange, results are said to be remarkable. When mixed with DDT it will destroy about any form of insect infestation it is said. In some producing quarters it was stated that a process has been found that practically eliminates the odor.

Sulphur and Pyrites

Mine shipments of sulphur have continued to aggregate satisfactory seasonal dimensions and the movement so far has been regular with sufficient transportation facilities to handle the tonnage. Pyrites remained firm with demand steady for regular consumers. An arrival of 109 casks from Greece was noted during the week.

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For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

Considerable price activity developed last week in the market for drugs and fine chemicals. Higher quotations developed on diethanolamine, ethylene dichloride, ethyleneglycol, hexamethylenetetramine, monoethanolamine, perchloroethylene, propylene dichloride, trichloroethylene, and triethanolamine. Castor beans were higher in Brazil but failed to attract local buyers whose prices for USP oil were up. Milk powder was firmer under present and prospective demand and a dwindling supply. Some quotations were raised. Activity decreased in silver bullion but prices on nitrate and cyanide of silver reflected the recent rise in raw material quotations.

Demand in the market as a whole was fairly broad and signs of reviving interest in items seasonable during the winter term were not lacking. Such materials underwent an increase in demand that came mainly from distributors seeking to protect their winter needs.

Among articles in such request were ammonium bromide and chloride, acetanilide, acetophenetidin, acetylsalicylic acid, codeine salts, ephedrine, potassium acetate, bromide, and citrate, sodium bromide and salicylate, terpin hydrate and theobromide sodiosalicylate. The gains in sales were moderate, but were expected to expand during the fall months.

Acetone was in good request and was available in ample quantities. Call for methyl acetone was slow to nil and prices were weak. Absorption of government stocks of ethyl alcohol of Cuban manufacture posed a neat problem which the government may solve by offerings made at a fixed price somewhat lower than that prevailing with the domestic distillers. Amyl acetate was a very scarce article when made from fusel oil and its supply cannot increase until such time as much more fusel oil shall become available. Denatured alcohol moved well. Glycerin was available in good sized quantities despite the recently somewhat adverse stock position as reflected in the July report of the Bureau of the Census.

Market Trends

Prices Advanced

Castor beans, $5 per long ton.
Castor oil, USP, ¼c. per lb.
Corn syrup, 40c. per 100 lbs.
Diethanolamine, 4c. per lb.
Ethylene dichloride, dms., ½c. per lb.
Ethyleneglycol, 1½c. per lb.
Hexamethylenetetramine, 2c. per lb.
Milk powder, skimmed, spray process, ¼c. per lb.
whole, roller process, ¼c. per lb.
spray process, ½c. per lb.
Monoethanolamine, 1c. per lb.
Perchloroethylene, ½c. per lb.
Silver bullion, ¼c. per lb.
cyanide, 3⅜c. per oz.
nitrate, 5c. per lb.
Triethanolamine, ½c. per lb.
Trichloroethylene, ½c. per lb.

Prices Reduced

Castor oil, No. 3, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
252.2	252.2	251.6	219.4

(For Current Prices see Page 9)

Acetone—The supply appeared to be ample despite the very good movement into consumption and the prospect for very fair business over the balance of this year. Prices were called relatively low, a factor in recently producing price weakness in competing material.

Acid, Aminoacetic—Price confirmation was obtained once more last week and producers stated that the movement into consumption was very steady and productive of approximately the same volume as that recorded for some time past. Undertones were very steady.

Acid, Acetylsalicylic—The market changed little last week. Orders were current in better volume and deliveries were on a reasonably satisfactory basis. Supply was sufficient at least to meet the home requirements of the manufacturers. Production costs were well maintained and so were producers' sales quotations.

Acid, Citric—With the passing of Summer has come some contraction in demand for prompt delivery goods. Deliveries were on an excellent basis and the supply seemed adequate in comparison with the takings of manufacturing consumers. Prices were on the firm side mainly because of the strength evident in quotations on raw material.

Acid, Gallic—The movement of USP acid from distributors was an improvement over that in recent weeks but the outgo from producers' plants was about even with that in recent weeks. Pricewise, the market appeared to be very steady under the influence of a firm undertone.

Acid, Gluconic—Stable prices continued to prevail and the movement into consumption was also on a stable basis. The item was one of excellent availability because of sufficient reserves.

Acid, Hydrobromic—Since no change has been made in the price of basic raw material, the price of this product was one of firmness at unchanged position throughout the past week and despite the fact that some derivatives of bromine were recently advanced sharply.

Acid, Pyrogallic—Requirements of buyers reached a good-sized total last week, some distributors reporting a gain in the movement of NF material. Quotations were steady to firm in a market lacking much in the way of competition.

Agar—The market held very firm, being based on relatively high prices at which Japanese material had been sold by government agency acting on open bidding for the material sent here by the occupation forces.

Alcohol—Movement into consumption was on a satisfactory basis, in the main. Consumer requirements accounted for the disposal of an excellent total gallonage and the business was done at firm, well maintained quotations as recently established by a price decline. The unsettling element in the overall situation is the accumulating supply of Cuban alcohol which the Reconstruction Finance Corporation has not found readily salable under bidding when offered in this market. The RFC has decided to offer its stock on what has been called a "fixed price basis" of 80c. per wine gallon for 190-proof material, duty paid. The price is considerably under that of the domestic producers. Some 23,000,000 gallons of Cuban material will be available for purchase.

Aloin—The recent decline in raw material prices left this derivative untouched so far as price movement was concerned. The producers said that demand was supporting the current schedule very well and that the movement into consumption was very good.

Ammonium Chloride—The movement to wholesalers and jobbers has gained moderately as they prepare for the enlarged consuming requirement certain to come with the advent of Winter. Present stocks of USP material were said to be adequate.

Ammonium Citrate—Movement conventional. Buyers bought close to actual and immediate requirements and were in reasonably prompt receipt of goods as needed. Quotations were very steady last week.

Ammonium Pentaborate—Producers indicated an excellent output of this material was moving steadily into consuming channels at prices fully stable and lacking in signs of any early change in the official schedule of quotations.

Amyl Acetate—Supplies of material made from fusel oil continued to be light and prices for such goods were very firm. The difficulty in supply is one of production which, in turn, is affected by the lack of sufficient fusel oil to permit production of acetate in a volume completely to meet demand.

Bromine—Producers retain an unchanged schedule of prices on purified material, this despite the fact that they recently advanced quotations on ammonium, potassium, and sodium bromides.

Butyl Myristate—Check with the main supplier of this article showed the item still not to be readily obtainable and still not being quoted openly to the consuming trade. It was intimated that special consideration would be given any whose need was imperative.

Cadmium Bromide—The price of this article remained unchanged with those on ammonium, potassium, and sodium bromides were advanced in the previous trading period. This, presumably, was because no change was made in bromine at that time.

Castor Oil—Beans were advanced to $215 per long ton. Arrivals of castor beans reached a very high total last week. The total was 58,195 bags or 8,729,250 pounds, which compared with 10,961 bags, or 1,644,150 pounds in the previous week, and 6,721 bags, or 1,008,150 pounds, in the corresponding week of 1946.

Total arrivals since January 1 this year became 1,018,707 bags, or 152,806,050 pounds, against 960,241 bags, or 144,036,150 pounds, arrived in the corresponding period of 1946.

The high prices prevailing for beans in Brazil are not affecting the price ideas of local producers of castor oil. They are producing ample quantities of oil from beans bought when Brazilian prices were lower

For Late Market Developments, See Page 4

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Sodium Cyanate, Tech Pure

Props: White crystalline powder; purity: 94.5% minimum; moisture: 0.5% maximum; impurities: cyanide as NaCN 0.2% maximum, chloride as NaCl 0.2% maximum, carbonate as Na_2CO_3 1.5% maximum; soluble in water, insoluble in alcohol and ether.

Uses: Organic syntheses, e.g., preparation of ureas and semi - carbazides; intermediate in manufacture of medicinals for treatment of amoebic type infections.

Methyl Iodide, C.P.

Props: Water white liquid; B.R. 40-44° C.; Sp. Gr. 25/25 2.4-2.27; Ref. Index: 1.529 at 21° C.; Miscible with ether or alcohol; water solubility 2.0%.

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and that fact, together with the added influence of sharp competition arising from other drying oils, tends to keep castor oil prices unchanged.

An official estimate of the castorbean crop in India forecasts a yield of 121,000 tons, against 123,000 tons last year. The acreage in India this year is forecast at 1,346,000 acres, against 1,431,000 acres last year.

Calcium Bromide—Although the major bromides were advanced recently, quotations on calcium bromide were not changed but were continued in very firm position. Demand was routine but steady.

Corn Syrup—The very strong and high price position of raw material raised prices 40c. per 100 pounds. Backed by good demand, the item displayed substantial strength and the increasing cost of production seemed destined to force another price advance in the not far distant future.

Creosote—Demand has already begun to freshen as consumers turned attention to stocking against the season when medicinal creosote products will come in for their enlarged request. Prices were firm as the active season began.

Diethanolamine—Prices raised to the following positions: tanks, 23½c. per pound; drums, carlots, 25c.; less carlots, 26c.

Ephedrine—Producers of synthetic material look forward to a season of active and expanded consumption of this article, a season that already is affecting favorably the movement to manufacturing consumers. Supply was in very good shape, according to report last week, and prices continued to be well stabilized.

Ethyl Bromide—Prices continued without quotable change despite the fact that major bromides were advanced in price recently. The price position of this bromide was very firm, being well supported by consuming demand and reflecting the stable quotations prevailing on bromine.

Ethylene Dichloride—Prices were advanced to 7c. per pound in tanks; drums, carlots, 8½c.; less carlots, 9½c.

Ethyleneglycol—Prices higher, as follows: tanks, 12c. per pound; drums, carlots, 13½c.; less carlots, 14½c., all east of Rockies. West of Rockies, ½c. higher.

Fishliver Oil—The local market developed no new angles in the spot position of this material. Reports of late have indicated an absence of broad, sustained request and a considerable unsettlement that has led prices to fluctuate considerably.

San Francisco, Sept. 11.—Supplies are good, the market upset. Inquiry was only fair. Vitamin A oils, including the 1894 conversion factor in all potencies, was as follows: 8,000 to 15,000 unit oil, 14½c. to 15c. per million units; 15,000 to 30,000, 16c.; 30,000 to 60,000, 17c. to 18c.; 60,000 to 100,000, 20c. to 22c.; 100,000 to 150,000, 25c. to 26c.; 150,000 to 200,000, 26c. to 28c.; concentrates, 500,000, 33c. to 34c., and a million units 38c.

Furfural—Although basic raw materials have shown strength, producers of this item have not given notice of any change in the official schedule of quotations.

Fusel Oil—The article was hard to obtain. Many sources reserve available supplies for their own manufacturing operations and hence very little material comes on the open market at this time.

Glycerin—Production of crude, basis 100 percent, in July this year was 3,194,000 pounds less than in June. Consumption in July dropped 3,699,000 pounds from that in June. But stocks at the end of July increased 536,000 pounds over those at the close of June.

The figures for high gravity and yellow distilled glycerin were combined. Production dropped 1,482,000 pounds. Consumption was off 108,000 pounds. And stocks were 995,000 pounds less.

Chemically pure glycerin production decreased 1,780,000 pounds. Consumption was 221,000 pounds less. Stocks dropped 551,000 pounds.

Guaiacol — Demand freshened moderately and the gain in buying was evidence of the fact that the season for major consumption is not far off. Buyers found the market to be very firm in price but fair quantities of material were evidently to be available this year.

Lithium Bromide — Also major bromide prices were advanced recently, the quotation on lithium bromide was not changed at that time. It was continued in firm position and was said to be in line with the fact that bromide prices have not been changed.

Magnesium Bromide—The article was still available at 90c. to $1 per pound, unchanged regardless of the fact that some other bro-

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mide prices had been advanced in the recent past.

Menthol—Signs of a revival of large trading were lacking. Business continued to be done mainly on a jobbing basis that left quotations without quotable change. Nor was there any important shift in the replacement cost of natural menthol in any of the world's markets. Supplies could withstand a substantial increase in local request.

Mercurials — Although quicksilver was down in price on the week, the official schedule on mercurials was unchanged at the close of last week and reports did not suggest that a change was a reasonable prospect at this time. Demand for the group was routine.

Methyl Acetone—Prices for natural material offered in some quarters were very close to the quotations prevailing on synthetic material, the latter being ½c. per gallon cheaper. Not all makers of natural material have readjusted quotations downward in conformity with what is being now quoted in other quarters. Demand was very light.

Methyl Bromide—Prices for this material remain unchanged regardless of the fact that major bromides were recently raised 3c. per pound in price. The unchanged position of methyl probably reflects the fact that no change was made in quotations on bromine.

Milk Powder — Skimmed milk powder, spray process was fractionally higher at 11¼c. to 12¼c. per pound according to seller and position of the material offered. Roller process whole milk powder was higher at 37½c. to 38¼c. per pound and spray was up to 38¼c. to 40¼c. Demand was reported good and a firm undertone prevailed here. The Department of Agriculture contemplated purchase of 7,500,000 pounds of spray process skimmed milk powder in September. This will be used for school lunches. Some 2,100,000 pounds of spray process whole milk powder is expected to be bought for export. Reports that France would be in the market again for whole milk spray process material could not be confirmed.

Monoethanolamine—Prices were higher at 24c. per pound for tanks; drums, carlots, 25½c.; less carlots, 26½c.

Perchloroethylene—Prices advanced in all zones. Zone 1, tanks, 10¼c. per pound; drums, carlots, 10¾c.; less carlots, 11½c.

Quinine—Although free from controls, the supply of this article continoed to be narrow and while there is more reason now to expect a gradual increase in the availability of the material, just how soon arrivals can be effected remains a moot question. The government stockpile of quinine hydrobromide is about 1,500,000 ounces and it is to be exchanged for an equivalent amount of quinine sulphate now held by a manufacturing consumer. The material in the government stockpile may not be offered for sale unless by proclamation by the president.

Salol—The market was relatively quiet as to demand but it was exceptionally well stabilized as to price. The article was available in quantities ample for the current requirements of buyers.

Silver Salts—Nitrate continued to range 45½c. to 47¼c. per ounce according to quantity and cyanide was available at 59⅛c. to 59⅞c. These prices represented recent advances made because of the rise in the price of silver bullion. Proteinate, both strong and mild, did not change then and remained unchanged last week.

Sodium Benzoate—Shipments have been in excellent volume to those whose Fall requirements reach important totals. The undertone of the market was steady to firm and supply was sufficient for need.

Sodium Cacodylate—The very broad range in sellers' prices was unaltered and sales were reported made at both ends of the position. Demand was routine and called mainly for jobbing quantities.

Sodium Glutamate—Offerings were limited to moderate quantities and producers indicated that there is little chance to increase their at present restricted output of the item. Raw material was scarce.

Trichloroethylene—Prices were advanced ½c. Tanks, zone 1, 9¾c. per pound; zone 2, 10½c.; zone 3 and 4, 11c. Drums, carlots, ½c. higher; less carlots, 1¼c. higher.

Triethanolamine—Prices raised to 19c. per pound in tanks; drums, carlots, 20½c.; less carlots, 21½c.

Miss Vernus Cronin has joined R. H. Macy & Co., department store, New York, and will become department manager of cosmetics and perfumes October 11, succeeding Miss Helen Weisburger.

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Newcomb Urges Efficiency In Drug Distribution

An appeal to the pharmaceutical industry for "continued efficiency in distributing health supplies to the American public at prices it can afford to pay" was made by E. Allen Newcomb, executive secretary of the National Wholesale Druggists Association, in an address before the Maine Pharmaceutical Association at its meeting in York Harbor, Me., on September 8.

"The singular achievement of the drug industry in bringing drugs and medicines to the people at prices equal to or only slightly higher than those prevailing before the war will serve as an example that we need not resort to unsound policies during a period of economic stress," he said, and added that "an efficient distributive system which results in increased dollar sales volume is the answer."

Mr. Newcomb singled out retail druggists as deserving of praise for progress made in modernizing their establishments and adopting the latest merchandising methods in order to offset the developing competition of new outlets. He termed efficient cost accounting one of the major problems facing distributors in the drug industry and pointed out that "if retail drug store management is going to think clearly on the question of margins of profit, and on the basis of this clear thinking do a proper sales promotion job, management must have the cost facts."

Vitamin A Plant Being Built in South Africa

Vitamin Sales Corporation of South Africa is constructing a vitamin concentrating plant at Simonstown, South Africa, which will use the "Solexol" process, developed by the M. W. Kellogg Company, New York, for the extraction of vitamin oil concentrate from the livers of soup fin sharks and ling cod.

The refining plant will concentrate the vitamin segment of the crude oil, producing a final product containing 500,000 or more international units per gram of vitamin A. Output of the plant is expected to exceed the current needs of the population of the Union of South Africa, and the surplus will be exported. The residual oil, which amounts to over 90 percent of the total, will be recovered in its original glyceride form.

Schering Research Staff Hears Dr. Carl Heller

The correlative effect of gonadotrophic hormones and the luteotrophic hormone was discussed by Dr. Carl Heller, associate professor of physiology and medicine at the University of Oregon Medical School, at a recent meeting of the scientific committee of Schering Corporation, Bloomfield, N. J. Dr. Heller, who was enroute to England where he planned to attend the first postwar International Physiological Congress at Oxford, also presented a summary of indications for estrogenic therapy.

Little Adds Nine to Staff

Arthur D. Little, Inc., industrial research organization, Cambridge, Mass., has made nine additions to its staff, as a part of its current expansion program. Those most recently added are Russell J. Bowen, Robert W. Fabian, Thomas Hall, William V. Keary, Benjamin A. Lambert, Albert E. Mignone, George E. Richter, Richard W. Tindal and Elizabeth Thorogood.

Trade Briefs

Seaforth, manufacturer of men's toiletries, New York, has introduced its new duralite container to be featured in the 'Royal Scot' set. The container is unbreakable, flexible and featherlight.

Herbert Clay, executive secretary of the Kentucky Petroleum Marketers Association, has been named chairman of the new Organization Executives' Council. Other officers are Louis Bosse, vice-chairman; Louis Quinn, secretary; Morris Jones, treasurer; and George Holmes, honorary director. Meetings will be held monthly at the Seelbach hotel, Louisville.

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Drug Prices Stability Credited to Fair Trade

Evidence that fair trade contracts have acted to keep drug prices down since 1939 was given in a study presented by Fred J. Griffiths, secretary of the National Association of Chain Drug Stores, at a meeting of the organization last week.

In summarizing the study, which covered 85 percent of the sales in drug and toiletries departments of drug chains, Mr. Griffiths pointed out that fair trade prices of 7,334 drugs and toiletries have increased an average of only 1.39 percent from June 1, 1939, to June 1, 1947.

He pointed out that fair trade, far from being an important factor in pushing prices up and holding them at high levels, has proved to be an important factor in stabilizing prices at reasonable levels. The fair trade minimums were set at competitive levels in 1939 because an unduly high price in 1939 would have killed the sale of the items under conditions at that time, he said.

The final effect of this action, he continued, was that in the immediate postwar years, when so many prices jumped, the fair trade contracts served to hold prices of drugs and toiletries down.

He presented data, using a weighted average of sales of fair trade drugs and toiletries, which showed a weighted increase of 3.1 percent for fair traded drugs and toiletries, and contrasted this with the 59.3 percent increase in cost of living reported by the Bureau of Labor Statistics.

In another address before the meeting, Paul H. Douglas, president of the Toilet Goods Association, sharply criticized the "discriminatory" retail excise tax on "essential cosmetics and toilet preparations." He declared that the government recognized cosmetics as essential by their inclusion in every cost-of-living budget prepared by governmental authorities, but it continues to impose a 20 percent sales tax on the products of the industry.

Handy & Harman Merges With Thomas J. Dee & Co.

Handy & Harman, refiner and producer of gold and silver alloys, New York, has merged with Thomas J. Dee & Co., dental products manufacturer, also of New York. The latter concern will become a division of Handy & Harman, it was announced by G. H. Niemeyer, president of the parent organization, and Harry E. Radix and Thomas G. MacMahon, president and secretary-treasurer respectively of Dee.

W.M. Stieh Forms Firm

William M. Stieh, until recently president and a director of Metalsalts Corporation and Darsyn Laboratories, and prior to his founding of these companies a vice-president and director of F. W. Berk & Co., has organized a new firm to be known as William M. Stieh & Co. Temporary offices will be opened at 20 Vesey street, New York.

The new organization will handle the sales and distribution of pharmaceuticals, and fine and heavy chemicals for the agricultural, pharmaceutical and industrial fields. During the war Mr. Stieh assisted in setting up the plan for mercury and mercurials for the Office of Production Management, which later became the War Production Board.

Foreign Sales Leads

—Continued from page 4

Nigrosine, Fortaleza, Brazil (AI-2).
Paint, Fortaleza, Brazil (AI-2); Otaru, Japan (AI-13); Brussels, Belgium (AI-16).
Paint spraying equipment, Brussels, Belgium (AI-16).
Paludrine, Tangier, Morocco (AI-10).
Paraffin, Sao Paulo, Brazil (AI-3).
Peanut oil, Mannheim, Germany (AI-11).
Pharmaceutical products, Rio de Janeiro, Brazil (AI-5); San Jose, Costa Rica (AI-14).
Photographic supplies, Rio de Janeiro, Brazil (AI-8).
Pitch, Salvador, Brazil (AI-6).
Potassium bichromate, Sao Paulo, Brazil (AI-3).
Potassium chlorate, Sao Paulo, Brazil (AI-3).
Quinine chlorosulphate, Tangier, Morocco (AI-10).
Quinine, ethylcarbonate, Tangier, Morocco (AI-10).
Quinine sulphate, Tangier, Morocco (AI-10).
Resin adhesives, Lemgo/Lippe, Germany (AI-12).
Resins, Sao Paulo, Brazil (AI-4).
Sodium carbonate, Fortaleza, Brazil (AI-2).
Sodium sulphide, Fortaleza, Brazil (AI-2).
Turpentine, Mannheim, Germany (AI-11).
Varnishes, Brussels, Belgium (AI-16).

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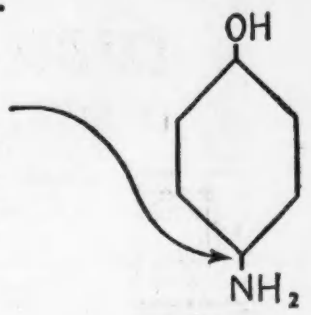
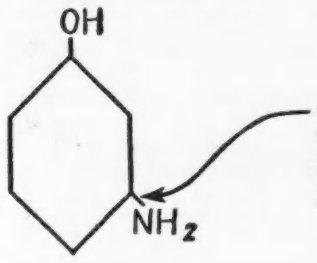


With the amino group in this position, para-aminophenol is formulated into the fastest of red-brown, brown, and black oxidation dyes for fur and wool. It's also a versatile intermediate for azo and sulfur dyes, for pharmaceuticals, and for industrially vital anti-oxidants.



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Metallurgical Engineers To Meet Sept. 28-Oct. 3

The American Institute of Mining and Metallurgical Engineers will discuss current and future developments in the mineral industry at its regional meeting to be held at the Shirley-Savoy hotel, Denver, from September 28 to October 3.

The petroleum reserves of the United States will be discussed by Everette DeGolyer, petroleum engineer, and Gustav Egloff, director of research, Universal Oil Products Company, will analyze modern refining methods. In addition, technical papers on petroleum will be presented by E. D. Gardner, Tell Ertl, Boyd Guthrie, and J. D. Lankford.

An open forum on current problems in milling and concentrating ores and minerals will be held, with comment and criticism to be given by:—

E. H. Rose, Tennessee Coal, Iron & Railroad Company; John F. Meyers, Tennessee Copper & Chemical Company; C. H. Benedict, Calumet & Hecla Consolidated Copper Company; W. L. Maxson, Oliver Iron Mining Company; Lyle M. Barker, Phelps Dodge Corporation; C. Y. Garber, Bunker Hill & Sullivan Mining & Concentrating Company; J. S. Swainson, American Cyanamid Company; Arthur F. Taggart, Columbia University; T. B. Counselman, Dorr Company; Raymond E. Byler, Merrill Company and Nathaniel Herz, Homestake Mining Company.

Filter Media Corporation Making Nylon Filter Cloth

Filter Media Corporation, Hamden, Conn., has available nylon filter cloth which is said to be substantially inert to most common alkalies, most organic acids, halogenated hydrocarbons, aldehydes, ketones, alcohols, carbon bisulphide and tetrachloride, trichlorethylene and benzene. It is said to have exceptionally high abrasion resistance, excellent heat resistance and to be unaffected by fungi and micro-organisms.

The cloth is produced in twill, chain and plain weaves in numerous porosities and in widths from twenty-six to seventy-two inches. The company will also supply the cloth in the form of made-up filter covers, and will furnish literature and pilot test samples on request.

White Oil and Petrolatum Bulletins Offered by Sonneborn

The white oil and petrolatum division of L. Sonneborn Sons, Inc., New York, has issued two new bulletins describing developments in the field of leather processing and finishing through the use of petroleum products. They suggest several formulae for use in fat liquoring, oiling-off and stuffing grease.

"Current Topics 84" describes the use of white mineral oil and petrolatum in the leather industry, and "Current Topics 85" covers the application of a light-colored soluble alkyl aryl petroleum sulphonate which functions principally as an auxiliary emulsifying agent. Copies may be obtained by writing on business stationery to the company at 88 Lexington avenue, New York 16.

Metal Cans Shipments: June

Total shipments of metal cans during June, 1947, showed slight increase, according to the Bureau of the Census. These figures are based on metal can shipments expressed in terms of the weights of steel consumed in the manufacture of the cans shipped. In the month of June metal can shipments on this basis amounted to 232,972 tons, as compared with the 207,571 tons shipped during May.

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Joins Sharp & Dohme

Edward C. Towle has been named pharmaceutical production manager for Sharp & Dohme, Inc., pharmaceutical manufacturer, Philadelphia. Mr. Towle comes to Sharp & Dohme from Lever Brothers Company, Cambridge, Mass., where he served as coordinator of pharmaceutical manufacturing operations and later in the quality control department.

Distribution Research Said To Prevent High Prices

Dr. E. L. Newcomb, executive vice-president, National Wholesale Druggists Association, declared that scientific research projects undertaken by organized groups of wholesalers as a means of formulating efficient and economic distribution of goods constitute one of the most effective media for counteracting the price spiral, in an address delivered before the mid-atlantic regional conference of the National Association of Wholesalers in Philadelphia on September 9.

"In an economy as complex as our own," he said, "we cannot continue to use wholesaling techniques which were practical in the past but are now inefficient. The machinery for distributing goods today is highly integrated and demands that each cog in the manufacturer-wholesaler-retailer unit be geared to function faultlessly."

He pointed out that the NWDA was the first organized group of wholesalers in the world to underwrite fellowships for graduate work in the field of wholesale distribution, and commended other wholesalers' organizations who are following this lead.

USDA to Reject Cancellations Of Dried Milk Contracts

OPD Washington Bureau

The Department of Agriculture has announced that in the future its general policy on support purchases of nonfat dry milk solids will be to reject requests to cancel contracts. Cancellations, the department said, unduly complicate the handling of purchase and delivery records, as well as the planning of the disposition of the milk. Since the beginning of the support program, USDA purchases have totaled more than 200,000,000 pounds, almost all of which have been committed for export and relief shipment.

Distillation Information Published

Distillation Products, Inc., Rochester, N. Y., has published a brochure containing information on high vacuum distillation, which details the various types of distillation equipment manufactured by the company. Copies may be obtained by writing to Distillation Products.

Trade Briefs

General Electric Company, Motor division, Schenectady, N. Y., is offering a totally-enclosed, unit-cooled generator for use in motor generator sets or in other generating applications in a non-hazardous atmosphere where the ratings involved totally-enclosed fan-cooled construction impractical.

Notre Dame University has announced that the Peter C. Reilly graduate fellowships in chemistry and chemical engineering for 1947-48 have been granted to David S. Ballantine, Bronx, N. Y.; Richard D. Gilbert, Winnipeg, Manitoba, Can.; Albert Schrage, Brooklyn, N. Y., and Robert H. Schuler, Buffalo, N. Y.

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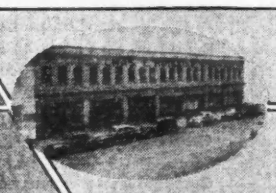

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Wax Production From Sugarcane Reported

The Sugar Research Foundation, New York, has published the third of its technological report series, entitled "Wax and Fatty By-Products from Sugarcane." Copies of it may be obtained from the foundation at 52 Wall street, New York 5.

The report outlines the development of wax from sugarcane from its inception on a commercial scale during the first World War in Durban, South Africa. It estimates that there is a potential of 67,000,000 pounds a year of wax obtainable from sugar areas supplying the North American continent, and almost 10,000,000 pounds available within continental limits.

It contrasts this neglected source against the soaring demand for hard waxes of vegetable origin, and says that interest has been renewed in recovering wax and fatty compounds from the cane juice during raw milling operations. At present, it continues, the greatest part of all commercial vegetable waxes are imported, and some 16,000,000 pounds of carnauba have been coming into the country every year since 1939.

The report outlines methods of recovery, which it says are not complicated, and reveals that a considerable amount of study toward improving techniques has been worked out for Louisiana cane at the Houma experimental station of the Department of Agriculture.

N.Y. Pharmacists Group To Hold Drug Show

New York Pharmaceutical Association, in cooperation with drug wholesalers and manufacturers, will sponsor the first "Drug Show" since the war, to be held at the Pennsylvania hotel, New York, October 27-29. A sales clinic, headed by merchandising authorities in the trade, will be conducted.

Monsanto Chemical Opens New Philadelphia Office

Monsanto Chemical Company has opened a new branch office in Philadelphia, in the Widener building, at Juniper and Chestnut streets. The office will handle all Monsanto sales, with emphasis on organic, phosphate and Merrimac division products.

Winthrop and Bayer Aid Relief of Dutch City

Winthrop Chemical Company contributed thirty cases of pharmaceuticals and medicines, and the Bayer Company Division of Sterling Drug, Inc., donated 144 boxes of aspirin tablets to a relief shipment sent to the town of Nijmegen, Holland. The medicines were part of a cargo dispatched after a campaign by the city of Albany, N. Y., to aid in the rehabilitation of the war-torn city.

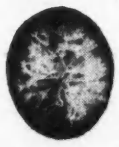
"I tried it once... didn't like it"

Don't run the risk of disappointing your customers with a product that "settles out," or has a watery or curdled appearance. Give it an even and lasting *distribution of color and body with Kraystay.*

The amount of stabilizer called for in most formulas is so small that its importance is often underestimated. But, if a stabilizer stops separation, curdling or "settling out," it is as important as the most costly ingredient. Many progressive manufacturers have found that Kraystay definitely improves their products through an even and *lasting* distribution of color and body.

This remarkable vegetable stabilizer, used in varying proportions, has unusual stabilizing, emulsifying, thickening, suspending and gelling properties. Kraystay is adaptable for use in cream lotions, hand lotions, toothpaste, cosmetics, pharmaceuticals, foods, and many other products of medium or low acidity.

Don't overlook the possibilities of improvement. Call or write today stating the nature of your product. Or, if you wish to submit your formula, Kraft technicians will be glad to assist you in the application of Kraystay to it. Kraft Foods Company, Dept. Y-18, 500 Peshtigo Court, Chicago 90, Illinois.



FROM TINY FRONDS OF CARRAGEEN (edible Irish moss) gathered from the cold ocean floor, Kraft extracts a clear, pure vegetable gelose for use in the manufacture of Kraystay. Modern scientific laboratory control insures the uniform high quality of this consistently efficient stabilizer.

KRAYSTAY
MADE BY KRAFT
A NEW DEVELOPMENT IN VEGETABLE STABILIZERS

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333 West 52d St., New York 19, N. Y.

Assn. of Consulting Chemists & Chemical Engineers, Inc.
50 East 41st St., New York 17, N. Y.

Biological Laboratories
16 Clinton St., Brooklyn 2, N. Y.

Bjorksten Research Laboratories
185 N. Wabash Ave., Chicago 1, Ill.

Bureau of Chemistry
2 Broadway, New York 4, N. Y.

Cleveland Chemical Engineering Service
5307 Sweeney Ave., Cleveland 4, Ohio

Colburn Laboratories, Inc.
431 S. Dearborn St., Chicago 5, Ill.

Di Cyan & Brown
12 East 41st St., New York 17, N. Y.

The Edwal Laboratories, Inc.
732 Federal St., Chicago 5, Ill.

Dr. J. Ehrlich
153 S. Doheny Dr., Beverly Hills, Calif.

Ellis-Foster Company
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Ralph L. Evans Associates
250 East 43rd St., New York 17, N. Y.

Evans Research & Development Corp.
250 East 43rd St., New York 17, N. Y.

Food Research Laboratories, Inc.
48-14 33rd St., Long Island City 1, N. Y.

E. M. Laning Company
433 Stuyvesant Ave., Irvington 11, N. J.

LaWall & Harrisson
1921 Walnut St., Philadelphia 3, Pa.

Leberco Laboratories
36 Roosevelt Ave., Bloomfield, N. J.

Dr. Fred Linsker
607 West 43d St., New York 18, N. Y.

Molnar Laboratories
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Munch Research Laboratories, Inc.
306 South 69th St., Upper Darby, Pa.

Orthmann Laboratories, Inc.
647 W. Virginia St., Milwaukee, Wis.

Public Service Testing Laboratories, Inc.
381 Fourth Ave., New York 16, N. Y.

W. S. Purdy Company, Inc.
18 Bridge St., Brooklyn 1, N. Y.

Resinous Research Associates
119 West 57th St., New York 19, N. Y.

Schwarz Laboratories, Inc.
202 East 44th St., New York 17, N. Y.

Foster D. Snell, Inc.
29 West 15th St., New York 11, N. Y.

R. Steckler Laboratories
10111 Euclid Ave., Cleveland 6, Ohio

Stillwell & Gladding, Inc.
130 Cedar St., New York 6, N. Y.

Wiley & Company, Inc.
Calvert & Reed Sts., Baltimore 2, Md.

Advanced by P.& G.

Dr. James G. Pleasants, formerly manager of technical divisions of Procter & Gamble Company, soap manufacturer, Cincinnati, Ohio, has been named director of manufacture in charge of all manufacturing and technical activities of the company. Dr. Pleasants has been with the firm since 1933.

Bids Wanted

—*Continued from page 4*

chasing Department (New York 3, N. Y.) negotiation 1,621, part 2, September 22.

Drugs and Chemicals, Army Medical Corps (Brooklyn 1, N. Y.) invitation 95, September 22; invitation 102, September 22.

Dyes, beta-naphthalene azo dimethylaniline, 3,015 pounds, Army Chemical Center, Md., invitation W-49, September 22; acid, 26,531 pounds, basic, 33,671 pounds, direct, 472,866 pounds, Naphthyl, 110,230 pounds, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Gamma acid, 50 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

H-acid, 250 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Hydrated lime, 300 tons, Army Engineers Corps (Washington 25, D. C.) invitation 21, September 22.

Hydraulic oil, 1,000 gallons, Navy Purchasing Office (New York 3, N. Y.) negotiation 1,621, September 22.

Insecticide, powder, 7,000 pounds, Navy Purchasing Office (New York 3, N. Y.) Negotiation 1,621 part 3, September 22; 2,400 pounds, negotiation 1,621, part 1, September 22.

J-acid, 50 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Linseed oil, boiled, 62,000 pounds, raw, 43,401 pounds, refined, 3,100 pounds, Navy Department (Washington 25, D. C.) Negotiation 4,470, September 16; raw, 62,000 pounds, negotiation 4,520, October 1.

Nitrogen, 2,800,000 cubic feet, Army Air Corps (Dayton, Ohio) invitation 193, September 19.

Paint, enamel, 2,225 gallons, Navy Department (Washington 25, D. C.) negotiation 4,466, September 16.

Paint, various, 530 gallons, Army Chemical Center, Md., invitation W-44, September 18; 5,000 gallons, Navy Department (Washington 25, D. C.) negotiation 4,474, September 22; 9,200 gallons, negotiation 4,467, September 17; approx. 4,508 gallons, negotiation 4,473, September 19; Approx. 7,680 gallons, negotiation 4,493, September 18; 5,340 gallons, negotiation 4,492, September 25; approx. 10,000 gallons, negotiation 4,468, September 17, 700 gallons, Quartermaster Purchasing Office (Fort Bragg, N. C.) invitation E-9, September 17.

Paint remover, 35,000 gallons, Navy Department (Washington 25, D. C.) negotiation 4,516, September 25.

Perchlorethylene 500,000 gallons, various deliveries, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 92, September 26.

Phenol, 250 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Pine oil, 4,500 gallons, Navy Department (Washington 25, D. C.) negotiation 4,471, September 19.

Quicklime, 100 tons, Army Chemical Center, Md., invitation W-50, September 23.

Red toner, 300 pounds, Bureau of Engraving and Printing (Washington 25, D. C.) invitation BEP-152, September 16.

Rust preventive compound, 480,000 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 22, October 6.

Shellac, orange, 200 gallons; white, 100 gallons, Army Chemical Center, Md., invitation W-44, September 18.

Sodium bichromate, 1,180 pounds, Army Engineers Corps (Mobile, Ala.) invitation 47, September 16.

Sodium sulphide, 250 metric tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Soybean oil, crude, 2,800,000 pounds, Quartermaster Purchasing Office (Chicago 9, Ill.) invitation 68, September 16.

Starch, wheat or corn, 330 short tons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 88, September 17.

Thinner, lacquer, 6,675 gallons, Navy Department (Washington 25, D. C.) negotiation 4,493, September 18; enamel, and lacquer, negotiation 4,475, September 23; enamel, 2,521 gallons, Quartermaster Purchasing Office (New York 3, N. Y.) invitation 98, September 23.

Trichlorethylene, 3,000 gallons, Army Air Corps (Kelly Field, Texas) invitation 19, September 17; 208,237 gallons, Army Air Corps (Dayton, Ohio) invitation 200, September 25; 33,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 18, September 29; 4,510 gallons, invitation 19, September 29.

Turpentine, 30,000 gallons, Navy Department (Washington 25, D. C.) Negotiation 4,471, September 19.

Varnish, 300 gallons, Army Chemical Center, Md., invitation W-44, September 18; various types. Navy Department (Washington 25, D. C.) negotiation 4,469, September 18.

Wax, 47,165 gallons, Navy Department (Washington 25, D. C.) negotiation 4,516, September 25.

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BEACON BRAND of Glyceryl Monostearate

Characteristics: A Pure white, edible material—in bead form . . . is completely dispersible in hot water . . . also completely soluble in alcohols and hydrocarbons (hot) . . . has a pH (3% aqueous dispersion at 25° C.) of 9.3 to 9.7 . . . melts at 55 to 59° C. (Capillary Tube) . . . is non-toxic and practically odorless.

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Imports at United States Ports

New York Imports

ALCANNA ROOT—11 bls, S B Penick & Co, Westerdam, Rotterdam
ANTIMONY ORE—2,273 bgs, Philipp Bros, Inc, Gerda Dan, Antofagasta
1,474 bgs, Philipp Bros, Inc, Copiapo, Antofagasta
ARABIC GUM—1 bg, Greene Trading Co, Robin Sherwood, Dar Es Salaam
250 bgs, Wm M Allison & Co, Trevider, Port Sudan
ARGOLS—632 bgs, Tartaric Raw Materials, Inc, Skagway Victory, Casablanca
731 bgs, American Cream Tartar Co, Meridian Victory, Naples
ASPHALT PETROLEUM—52,967 bbls, Shell Oil Co, Inc, Petella, Curacao
ARSENIC—80 bbls, Mesh Knot, Vera Cruz
ARTISTS MATERIALS—15 cs, Winsor & Newton, Port Sydney, London
ASBESTOS—1,350 bgs, Johns Manville Corp, Robin Sherwood, Lourenco Marques
1,842 bgs, Johns Manville Corp, Robin Sherwood, Capetown
BALATA—6 bls, Middleton & Co, Triton, Paramaribo
15 bls, Public National Bank, Triton, Paramaribo
72 bls, Wessel, Duval & Co, Hera, Ciudad Bolivar
BALL CLAY—300 tons, United Clay Mines Corp, Montreal City, Avonmouth
1,004 bgs, United Clay Mines Corp, Montreal City, Avonmouth
100 tons, Moore & Munger, Montreal City, Avonmouth
BAUXITE—3,708 tons, General Chemical Co, Hera, Smalwalden
BEES WAX—29 bgs, Schutte & Focke, Borinquin, Trujillo City
35 bgs, Geck Trading Corp, Borinquin, Trujillo City
10 bgs, Catz American Co, Mesh Knot, Havana
22 bgs, Wessel, Kulenkampf & Co, Jean, Puerto Plata
20 bgs, Lenape Trading Co, Rio Verde, Recife
BERYL ORE—1,000 bgs, J W Hampton, jr, Co, Whittier Victory, Cabedello
BITUMEN—1,142 dms, Wilson Carbon Co, Esso Aruba, Aruba
BLACK LEAD—5 cs, A W Faber, Inc, American Merchant, Bremen
BLUE CLAY—100 tons, United Clay Mines Corp, Montreal City, Avonmouth
100 tons, Moore & Munger, Montreal City, Avonmouth
300 tons, Montreal City, Avonmouth
BRYONIA ROOT—29 bgs, Traders Export Syndicate, Meridian Victory, Naples
BUTTONLAC—125 [illegible], Bradshaw, Praeger & Co, Cape San Diego, Calcutta
CANARY SEED—100 bgs, Hershey Co, Skagway Victory, Catania
CARAWAY SEED—100 bgs, Braun Importing Co, Westerbam, Rotterdam
50 bgs, Richard J Spitz, Westerdam, Rotterdam
100 bgs, R L Friedler, Westerdam, Rotterdam
100 bgs, A Cronowitz, Westerdam, Rotterdam
100 bgs, Levy & Levis Co, Union Victory, Rotterdam
100 bgs, L German, Notre Dame Victory, Lisbon
200 bgs, Holland Colombo Trading Co, Arkeldyk, Rotterdam
200 bgs, Durkee Famous Foods, Arkeldyk, Rotterdam
CARNAUBA WAX—10 bgs, R W Cameron & Co, Whittier Victory, Parnaiba
313 bgs, Chase National Bank, Whittier Victory, Parnaiba
53 bgs, W R Grace & Co, Lali, Bahia
CARNAUBA WAX—63 bgs, Strahl & Pitsch, Whittier Victory, Parnaiba
88 bgs, Cornelis Product Co, Whittier Victory, Parnaiba
126 bgs, Wax & Rosin Products, Whittier Victory, Parnaiba
89 bgs, Wm M Allison & Co, Whittier Victory, Parnaiba
201 bgs, Wessei, Duval & Co, Whittier Victory, Parnaiba
227 bgs, W R Grace & Co, Whittier Victory, Parnaiba
25 bgs, Innis, Speiden & Co, Whittier Victory, Parnaiba
38 bgs, American Cyanamid & Chemical Corp, Whittier Victory, Parnaiba
83 bgs, Wessel, Duval & Co, New Rochelle Victory, Fortaleza
22 bgs, Natural Product Corp, New Rochelle Victory, Fortaleza
11 bgs, Innis, Speiden & Co, New Rochelle Victory, Fortaleza
33 bgs, Wm M Allison & Co, New Rochelle Victory, Fortaleza
250 bgs, Chase National Bank, New Rochelle Victory, Parnaiba
163 bgs, Wessel, Duval & Co, New Rochelle Victory, Parnaiba
186 bgs, Smith & Nichols, New Rochelle Victory, Parnaiba
38 bgs, F B Ross & Co, New Rochelle Victory, Parnaiba
375 bgs, W R Grace & Co, New Rochelle Victory, Parnaiba
50 bgs, W M Allison & Co, Rio Verde, Fortaleza
33 bgs, Lenape Trading Co, Rio Verde, Fortaleza
44 bgs, Runge Corp, Rio Verde, Fortaleza
132 bgs, W R Grace & Co, Rio Verde, Fortaleza
56 bgs, Chase National Bank, Rio Verde, Fortaleza
56 bgs, F B Ross & Co, Rio Verde, Fortaleza
11 bgs, Innis, Speiden & Co, Whittier Victory, Fortaleza
66 bgs, F B Ross & Co, Whittier Victory, Fortaleza
60 bgs, Wm M Allison & Co, Whittier Victory, Fortaleza
CASEIN—1,250 bgs, Paul A Dunkel & Co, Mormacdawn, Buenos Aires
834 bgs, American Cyanamid & Chemical Corp, Mormacdawn, Buenos Aires
4,000 bgs, Hercules Powder Co, Mormacdawn, Buenos Aires
1,000 bgs, The Borden Co, Mormacdawn, Buenos Aires
CASHEW SHELL LIQUID—250 dms, Irvington Varnish & Insulator Co, New Rochelle Victory, Fortaleza
466 dms, Irvington Varnish & Insulator Co, Trevider, Cochin
CASSIA FISTULA—7 cs, Citrus & Allied Essential Oil Co, Jean, Puerto Plata
CASTOR BEANS—625 bgs, Spencer Kellogg & Sons, Talamon, Port au Prince
244 bgs, Baker Castor Oil Co, Talamon, Cape Haitian
2,550 bgs, Baker Castor Oil Co, New Rochelle Victory, Bahia
14,000 bgs, Baker Castor Oil Co, New Rochelle Victory, Recife
847 bgs, Spencer Kellogg & Sons, New Rochelle Victory, Cabedello
730 bgs, Spencer Kellogg & Sons, New Rochelle Victory, Fortaleza
1,165 bgs, Baker Castor Oil Co, Rio Verde, Bahia
3,500 bgs, Baker Castor Oil Co, Rio Verde, Recife
5,080 bgs, Spencer Kellogg & Sons, Rio Verde, Recife
779 bgs, Spencer Kellogg & Sons, Rio Verde, Fortaleza
8,000 bgs, Baker Castor Oil Co, Whittier Victory, Recife
1,506 bgs, Spencer Kellogg & Sons, Whittier Victory, Fortaleza
5,950 bgs, Baker Castor Oil Co, Mana, Salvador
7,000 bgs, Baker Castor Oil Co, Mana, Recife
1,693 bgs, Baker Castor Oil Co, Mana, Cabedela
3,360 bgs, Spencer Kellogg & Sons, Mana, Cabedela
1,046 bgs, Spencer Kellogg & Sons, Lali, Bahia
CEDARWOOD OIL—5 dms, W J Bush & Co, Robin Locksley, Mombasa
CELERY SEED—86 bgs, Becker-Mayer Seed Co, Hoperidge, Karachi
CHALK, COMMON—1,000 bgs, Whittaker, Clark & Daniels, Port Sydney, London
PRECIPITATED—300 bgs, H J Baker & Bro, Montreal City, Avonmouth
CHICLE GUM—28 cs, T A Desmond & Co, Whittier Victory, Manaus
CHINA CLAY—80 cks, E Fougera & Co, Port Sydney, London
CHROME ORE—5,603,160 lbs, Frank Samuels & Co, Robin Sherwood, Lourenco Marques
2,311,230 lbs, E J Lavino & Co, Robin Sherwood, Lourenco Marques
230,340 lbs, E J Lavino & Co, Virginia City Victory, Durban
CINNAMON—150 bls, Carr Bros, Trevider, Colombo
150 bls, C T Wilson & Co, Trevider, Colombo
100 bls, E Meer & Co, Trevider, Colombo
150 bls, Duncan Fox & Co, Trevider, Colombo
CITRONELLA OIL—37 dms, Volkart Bros, American Ranger, London
2 cks, Ultramar Drug Co, Santa Sofia, Buenaventura
COCOA RESIDUE—3,750 bgs, H J Baker & Bro, Lali, Ilbros
1,384 bgs, Port Sydney, London
2,000 bgs, Monsanto Chemical Co, Notre Dame Victory, London
CODLIVER OIL—1,000 bbls, Peder Devold Oil Co, Norefjord, Aalesund
200 bbls, Arista Oil Products Co, Norefjord, Aalesund
60 cks, R J Prentiss & Co, Tapdalsfjord, Bergen
COLOMBO ROOT—276 bgs, Van Norden & Archibald, Robin Sherwood, Dar Es Salaam
524 bgs, W A Martin Co, Robin Sherwood, Dar Es Salaam
241 bgs, R J Lepow, Virginia City Victory, Durban
COLORS, EARTH—336 bgs, Reichard Coulston, Inc, Union Victory, Rotterdam
COLORED LEAD—9 cs, A W Faber, Inc, American Merchant, Bremen
CONDURANGO BARK—124 bgs, Wessel, Duval & Co, Gerda Dan, Paita
226 bgs, Duncan Fox & Co, Gerda Dan, Paita
COPAL GUM—28 bgs, American Cyanamid & Chemical Corp, Hoperidge, Singapore
35 bgs, Gillespie-Rogers-Pyatt Co, Hoperidge, Singapore
CORIANDER SEED—250 bgs, H S Cramer & Co, Skagway Victory, Casablanca
188 bgs, Transatlantic Commodities Corp, Skagway Victory, Casablanca
CRESOL CRYSTALS—38 dms, Port Sydney, London
CRESYLIC ACID—220 dms, Republic Chemical Co, Port Sydney, London
160 dms, Port Sydney, London
50 dms, P D George Co, American Forwarder, Liverpool
160 dms, Schenectady Varnish Co, American Forwarder, Liverpool
200 dms, American Forwarder, Glasgow
CUBE ROOT—57 bls, Morris Hess & Co, Santa Luisa, Callao
CUTTLEFISH BONES—100 cs, Manufacturers Trust Co, Pero Dealenquer, Lisbon
CYMBARUM OIL—50 dms, Anita, Itajai
DRUG WASTE—128 bgs, R Quibell, James McCoch, Singapore
31 dms, R Quibell, James McCoch, Singapore
1,265 bgs, Reconstruction Finance Corp, James McCoch, Singapore
DYES, ANILIN—6 dms, L & R Organic Product Co, American Forwarder, Manchester
18 dms, Sandoz Chemical Works, Exford, Genoa
ESSENTIAL OIL—10 bbls, Fritzsche Bros, Exford, Marseilles
50 bbls, P R Dreyer, Exford, Marseilles
EUPHORBIA GUM—5 bgs, Peek & Velsor, Skagway Victory, Casablanca
FERROSILICON—1 cs, American Cyanamid & Chemical Corp, Gripsholm, Gothenburg
FISHMEAL—1,213 bgs, Wessel, Duval & Co, Hera, Puerto Sucre
FLEASEED—210 bgs, T M Duche & Sons, Hoperidge, Karachi
FOOD COLOR—15 bbls, H S Dorf & Co, Sobieski, Genoa
1 bbl, Peek & Velsor, Sobieski, Genoa
FUEL OIL—95,000 bbls, Standard Oil Co N J, Esso Bolivar, Aruba
95,000 bbls, Standard Oil Co N J, Esso Aruba, Aruba
103,295 bbls, Cities Service Oil Co, Finmark, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Paula, Curacao
15,314 bbls, Shell Oil Co, Inc, Patella, Curacao
GLUESTOCK—127 bgs, Irving Trust Co, American Forwarder, Manchester
GLYCERIN—175,636 lbs, C J Schelling, Seatrain New Jersey, Havana
GUM, CRUDE—40 bls, Chicle Development Co, Hera, Ciudad Bolivar
GYPSUM—10,235 tons, United States Gypsum Co, Gypsum Prince, Hantsport
7,856 tons, National Gypsum Co, Edward N Hurley, Dingwall
CALCINED—200 bgs, Whittaker, Clark & Daniels, American Forwarder, Liverpool
IRON OXIDE—896 bgs, Landers Segal Color Co, Montreal City, Avonmouth
JUNIPER OIL—1 cs, Traders Export Syndicate, Meridian Victory, Naples
LEMON OIL—2 qr cs, Corn Exchange Bank & Trust Co, Tekla, Messina
LEMONGRASS OIL—2 dms, Citrus & Allied Essential Oil Co, Jean, Puerto Plata
9 dms, Aromatic Products Co, Trevider, Cochin
LIME JUICE, UNSWEETENED—3 hhd, Maifield & McLeer, Port Sydney, London
2 cks, Maifield & McLeer, Port Sydney, London
LIME OIL, DISTILLATE—1 dm, Citrus & Allied Essential Oil Co, Jean, Puerto Plata
LOCUST BEAN GUM—100 bgs, P A Dunkel & Co, Exford, Genoa
50 bgs, Wm M Allison & Co, Exford, Genoa
50 bgs, American Cyanamid & Chemical Corp, Export, Genoa
MAGNESITE CALCINED—522 bgs, Golwynne Chemical Corp, Trevider, Madras
MANGROVE BARK—1,626 bgs, Vermilye Co, Robin Locksley, Zanzibar
648 bgs, Geo Uhe & Co, Robin Locksley, Zanzibar
MICA—12 cs, General Electric Co, Trevider, Calcutta
28 cs, Whittaker, Clark & Daniels, Trevider, Calcutta
62 cs, Cornelis & Suhr, Trevider, Calcutta

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MICA—528 cs, Eugene Munsell & Co, Trevider, Calcutta
1,031 cs, Cape San Diego, Calcutta
MOLASSES—1,856,128 gls, Reconstruction Finance Corp, Oscar S Strauss, Santa Cruz Del Sur
1,086 tons, Standard Brands, Inc, Santa Luisa, Salaverry
MUCUGE GUM—106 bgs, L A Dreyfus & Co, Rio Verdi, Bahia
166 bgs, L A Dreyfus & Co, Lali, Bahia
NAPHTHENIC ACID—1,186 bbls, Standard Oil Co N J, Esso Bolivar, Aruba
NUTMEGS—100 bgs, American Ranger, London
OITICICA CAKE—2 cs, Brasil Oiticica, Inc, Rio Verde, Fortaleza

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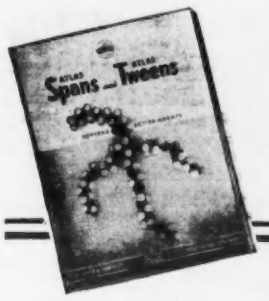
OITICICA OIL—73 dms, L N Jackson & Co, New Rochelle City, Fortaleza
50 dms, National City Bank, New Rochelle Victory, Fortaleza
240 tons, Brasil Oiticica, Inc, Rio Verde, Fortaleza
25 dms, Brasil Oiticica, Inc, Rio Verde, Fortaleza
OLIBANUM GUM—54 bgs, Paul & Stein Bros, Trevider, Aden
OURICURY WAX—56 bgs, W R Grace & Co, Rio Verde, Bahia
56 bgs, Strahl & Pitsch, Rio Verde, Bahia
56 bgs, Wessel, Duval & Co, Rio Verde, Bahia
63 bgs, Innis, Speiden &Co, Lali, Bahia
65 bgs, W R Grace & Co, Lali, Bahia
118 bgs, E A Bromund Co, Lali, Bahia
PALM OIL—1,430 tons, Balfour, Guthrie & Co, Tai Yin, Matadi
PAPAIN—29 cs, American Ferment Co, Trevider, Colombo
PEATMOSS—980 bls, Halfmoon Mfg Trading Co, Arfeldyn, Rotterdam
PENDARO GUM—79 bls, L A Dreyfus Co, Hera, Ciudad Bolivar
PEPPER, BLACK—240 bgs, Guaranty Trust Co, Trevider, Cochin
675 bgs, Hoperidge, Singapore
WHITE—70 bgs, American Ranger, London
66 bgs, M J Golombeck, Westerdam, Rotterdam
66 bgs, Otto Gerdau Co, Westerdam, Rotterdam
PERILLA GUM—66 cs, Chicle Development Co, Santa Luisa, Buenaventura
PETROLEUM, CRUDE—109,044 bbls, Standard Oil Co N J, Golden Hill, Cartagena
128,222 bbls, Standard Oil Co N J, Esso Scranton, Puerto La Cruz
105,929 bbls, Gulf Oil Corp, Gulfwing, Las Piedras
102,937 bbls, Colonel Beacon Oil Co, Front Royal, Caripito
117,715 bbls, Imperial Oil, Ltd, Esso Annapolis, Puerto La Cruz
110,388 bbls, Standard Oil Co N J, F H Bedford, Las Piedras
88,625 bbls, Standard Oil Co N J, Nordanger, Caripito
110,000 bbls, Standard Oil Co N J, Esso Charlotte, Las Piedras
POPPYSEED—102 bgs, M J Golombeck, Mormacpine, Copenhagen
102 bgs, Richard J Spitz, Mormacpine, Copenhagen
100 bgs, Wagner Bros Feed Corp, Mormacpine, Copenhagen
100 bgs, I Grob & Co, Mormacpine, Copenhagen
50 bgs, Knickerbocker Mills Co, Mormacpine, Copenhagen
PYRETHRUM FLOWERS—499 bls, R J Prentiss & Co, Virginia City Victory, Mombasa
250 bls, Westinghouse Electric International Co, Virginia City Victory, Mombasa
PYRITES—109 cks, American Metal Co, Pero Deal-enquer, Leviees
QUERRACHO EXTRACT—5,565 bgs, International Products Corp, Mormacdawn, Buenos Aires
ROSEWOOD OIL—3 dms, S B Penick & Co, Whittier Victory, Purintins
3 dms, Trubek Laboratories, Whittier Victory, Parintins
SARSAPARILLA ROOT—10 bls, Mesh Knot, Vera Cruz
SEEDLAC—300 bgs, Bradshaw Praeger & Co, Trevider, Calcutta
200 bgs, Schwab Bros Corp, Cape San Diego, Calcutta
SENNA LEAVES—30 bls, Volkart Bros, Trevider, Tuticorin
PODS—25 bls, E Meer & Co, Trevider, Tuticorin
15 bls, Peek & Velser, Trevider, Tuticorin
SHARK LIVER OIL—9 dms, Distillation Products, Inc, Panama, Cristobal
SODA CAUSTIC—6 dms, Bergstrom Trading Co, Gripsholm, Gothenburg
SORVA GUM—106 cs, Astoria Pan Americana, Inc, Whittier Victory, Manaus
100 cs, T A Desmond & Co, Whittier Victory, Manaus
68 cs, Earle Bros, Whittier Victory, Manaus
63 cs, Herman Weber & Co, Whittier Victory, Manaus
120 cs, Astoria Pan America, Inc, Whittier Victory, Itacoatiara
63 cs, Herman Weber & Co, Whittier Victory, Parintins
TALC—875 bgs, L A Salomon & Bros, Dorfront, Bordeaux
2,750 bgs, Whittaker, Clark & Daniels, Dorfront, Bordeaux
1,716 bgs, Charles Mathieu, Inc, Meridian Victory, Genoa
TANTALITE ORE—60 bgs, Watson, Geach & Co, Rio Verde, Recife
210 bgs, Watson, Geach & Co, Whittier Victory, Recife
TAPIOCA FLOUR—5,000 bgs, Stein, Hall & Co, Mormacdawn, Santos
3,334 bgs, Irving Trust Co, Anita, Itajai
2,204 bgs, Bank of New York, Anita, Itajai
4,000 bgs, Trust Co of North America, Anita, Itajai
16,075 bgs, Stein, Hall & Co, Anita, Itajai
8,634 bgs, Geismar & Co, Anita Itajai
TEAWASTE—1,150 chests, Citro Chemical Co, Port Sydney, London
1,667 bgs, Citro Chemical Co, Port Sydney, London
5,320 bgs, Maywood Chemical Works, Cape San Diego, Calcutta

—Continued on page 74



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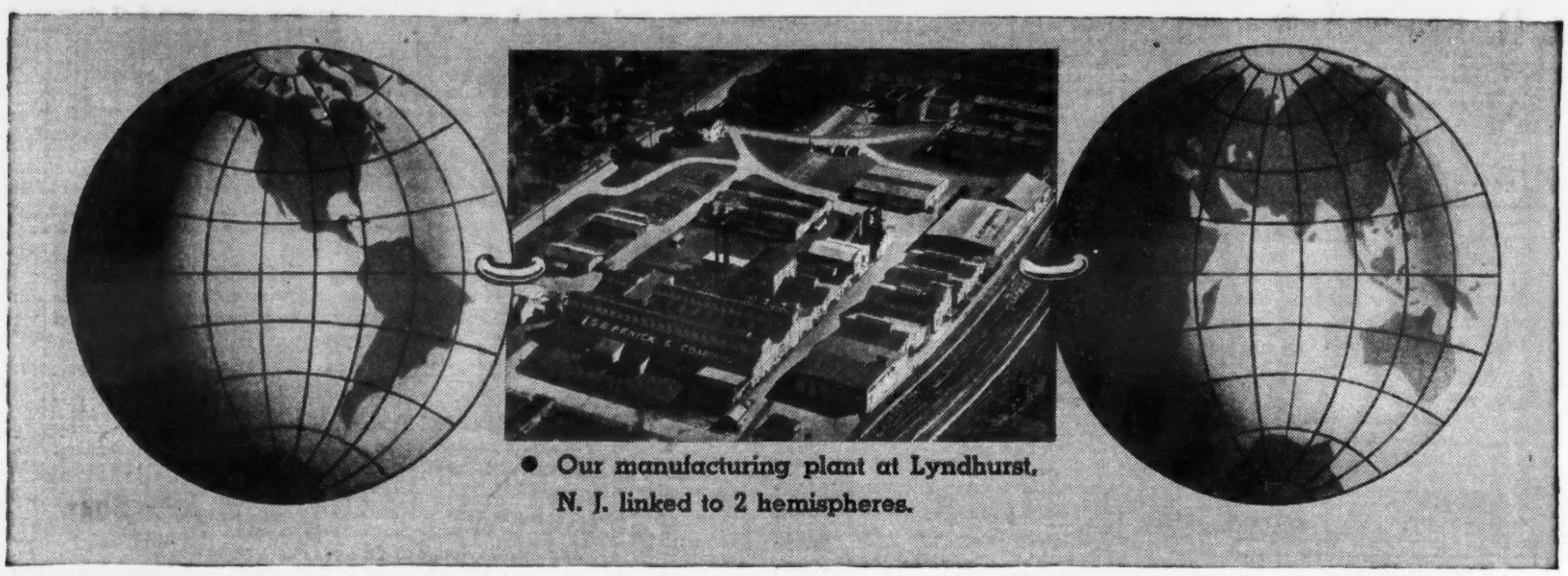

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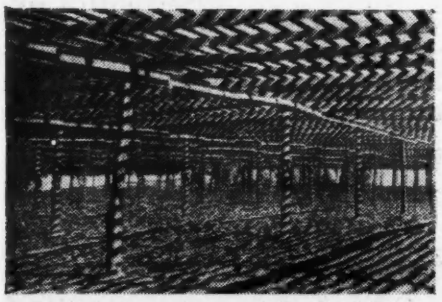

● Partial view of one of the Penick Hydrastis (Golden Seal Root) Gardens.

We shall be pleased to advise you regarding any individual items in this list. ⟶

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Emetine Hydrochloride U.S.P.
Eserine Alkaloid
Eserine Salicylate U.S.P.
Eserine Sulphate U.S.P. VIII

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Homatropine Hydrochloride
Homatropine Methyl Bromide
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Homatropine Sulphate
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Hydrastine Hydrochloride N.F.
Hydrastine Sulphate
Hyoscine Hydrobromide U.S.P.
Hyoscyamine Alkaloid
Hyoscyamine Hydrobromide U.S.P. X
Hyoscyamine Sulphate

Lobeline Hydrochloride (Alpha)
Lobeline Sulphate

Ouabain U.S.P. (Strophanthin (G))

Physostigmine (See Eserine)
Picrotoxin U.S.P.
Pilocarpine Alkaloid
Pilocarpine Hydrobromide
Pilocarpine Hydrochloride N.F.
Pilocarpine Nitrate U.S.P.
Pilocarpine Salicylate
Pilocarpine Sulphate
Podophyllin N.F.

Rutin

Quassin
Quinidine Sulphate U.S.P.
Quinine Hydrochloride U.S.P.
Quinine Sulphate U.S.P.

Salicin
Sanguinarine Nitrate
Sanguinarine Sulphate
Santonin N.F.
Saponin
Scopolamine Hydrobromide U.S.P.
Sparteine
Sparteine Camphosulphonate
Sparteine Sulphate N.F.
Strophanthin (K) N.F.

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Veratrine
Veratrine Hydrochloride
Veratrine Sulphate
Yohimbine Hydrochloride (so called)

The above represents the complete list. Some items are in limited supply because of crude material.

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Botanical Drugs, Spices, Gums

Price trend in the botanical drug market last week was mainly upward. Condimental items have developed a pronounced reversal in price movements and the entire group was shot through with shortages in spot supplies which, if long continued, will force quotations still higher. Medicinal drugs were rather evenly divided as to number of changes but so far as the importance of change was considered, the weight was on the up side of the market. Demand in the market was moderate to light in medicinal items but was brisker and productive of larger volume so far as flavoring materials were concerned.

The situation in importations of botanicals used medicinally and industrially, as shown in the latest release of statistical data prepared by the Department of Commerce, is opposed to the idea that stocks have been added liberally during the period January through May. In all categories except that of aromatic gums, the total of arrivals this year are all smaller than they were for the corresponding period in 1946. The grand, over all total of such arrivals showed a net decrease of almost 8,000,000 pounds in January-May, 1947 imports.

The following tabulation of import totals will throw the spot light on a general breakdown in the total figures:

	Pounds	
	1947	1946
Botanicals, medicinal	7,709,861	8,536,614
mainly industrial	28,463,796	20,625,714
Balsams	198,507	230,276
Gums, aromatic	529,030	522,721
industrial	9,037,825	14,712,718
Total	45,659,389	53,622,053

It is unfortunate that the Department of Commerce makes no compilation of domestic drug collection nor does it ever attempt an estimate of the probable domestic production in any year. Nor is there any other official body in the country able and competent to supply data on the production of domestic botanicals. Individual dealers do work out figures based on their own experience each collection season but the collection figures are nowhere drawn together and a total released to the trade for consumer information.

The only information now available in 1947 crop prospects is that collections will be one-third smaller than 1946 totals, according to some, or that the crop will be 60 to 75 percent of last year's, according to others.

Balsams

Copaiba—Stocks were no larger last week, the period having failed in producing further arrivals from the primary market. Local conditions continued to produce a very firm price position and to keep any tendency toward competition repressed for the most part.

Fir—Canadian balsam was still in light supply and firm in price. Demand failed to press very strongly against the limited spot stocks but there still was a fair sized jobbing interest in the item.

Peru—Demand was light and mainly for jobbing quantities and needs. Undertones were generally steady and the market was not overly competitive. Replacement costs were reported as being well maintained at the source.

Tolu—The item was available in limited quantities and all prices were on a strong foundation that consisted of high replacement cost and not generous offerings of shipment material at the origin.

Barks

Angostura—Demand was comparatively light, which fitted in well with the absence of more than moderately sized spot holdings of the material. Prices were very firm and no tendency to shade them could be found locally during the past week.

Cinchona—Reports from the Netherlands East Indies indicate that the Dutch authorities are not too sanguine about their ability to repress the Indonesian military activities now that the republican resistance has been broken into many small groups. However, it seemed that the cinchona bark plantations are well under control and it may be that the Dutch will be able once more to resume major exports of bark in the not too distant future. Imports of cinchona bark in the period January-May this year totaled 624,421 pounds, comparing with 34,583 pounds in the corresponding period, 1946.

Cocillana—Some signs of demand being rejuvenated by the advance of the season toward the period of greatest consumption were noted last week. Sales were up moderately and prices prevailed in very firm position.

Cramp—A fairly high price is being offered collectors of the N.F. article without having stimulated arrivals to levels of important size. Undersupply seems likely during the next year.

Sassafras—Deliveries of select bark of root into the collection depots seems to have been fair. At least, the southern stations were receiving fair quantities with fair regularity in recent weeks. The article is used mainly in the middle and far west.

Wahoo—Stocks have not gained to the extent dealers had hoped for and no oversupply seems likely during the next consuming season. Fairly attractive prices have been offered gatherers but the goods have been collected moderately at the best. Prices remain firm on spot.

Beans

Tonka—Undertones were rather dull in a quiet market. However, since replacement costs have shown stability, spot quotations have been steady and well maintained for the most part.

Vanilla—It could be that beans cured in Hawaii may eventually work their way into consuming channels of this country. Steps to that end have been taken by Pacific Coast factors who recently discovered the orchid in fair abundance on two islands of the group. However, the trade will still look mainly to the production in the French islands and in Mexico. Trade was rather quiet last week without producing adverse effect on spot quotations which, in fact, showed considerable strength throughout the period.

Berries

Juniper—The Department of Commerce reports on arrivals are not very definitive in the case of this item. Apparently, the department bulks together the arrivals of juniper and sloe berries, although the official statement says "sloe or juniper berries." Sloe, botanically, is *prunus spinosa*. Juniper is *juniperus communis*. The species are alike only that both are used in making varieties of gin. The imports of sloe or juniper berries in the period January-May, this year totaled 685,421 pounds, comparing with 914,917 pounds in the corresponding time in 1946.

Prickly Ash—Activity was slight, yet the market held steady in price and was said to line up with what is being paid gatherers of new crop material, a gathering that to date has not produced large quantities.

Flowers

Arnica—Inactivity on the part of buyers had not had an adverse effect on prices prevailing in this market. A steady undertone

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

Fenugreek seed, Indian, ½c. per lb.
Jalap root, 2c. per lb.
Lycopodium, 25c. per lb.
Papain, powdered, 25c. per lb.
Senega root, 25c. per lb.

Other Articles

Anise, Syrian, ¼c. per lb.
Cassia, Saigon, medium, 1c. per lb.
Celery seed, Indian, futures, ½c. per lb.
Coriander seed, Peruvian, ½c. per lb.
Gold of pleasure seed, 1c. per lb.
Grains of paradise, 12½c. per lb.
Mustard seed, Dutch, yellow, ½c. per lb.
Montana, brown, new crop, 1½c. per lb.
yellow, new crop, 3c. per lb.
Pepper, black, 3c. per lb.
futures, 3½c. per lb.

Prices Reduced

Drugs

Dograss root, imported, 10c. per lb.
Gum benzoin, Sumatra, 5c. per lb.
gamboge, 55c. per lb.
Sabadilla seed, powdered, 3c. per lb.

Other Articles

Anise, Mexican, ½c. per lb.
Nutmegs, West Indian, futures, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
267.0	264.0	267.1	272.2

(*For Current Prices see Page 9*)

Imports Detained by FDA

Week Ended September 5

Buckthorn berries, 5 case: live and dead insects.
Codliver oil, 50 drums: decomposed.
Cod oil, 50 casks, 50 drums: decomposed.
Hyoscyamus muticus, 35 bales: not official variety.
Papain, 29 cases: filthy.
Paprika, 200 bags: filthy.
Pimento, unground, 100 bags: filthy.
Rhubarb root, 117 cases: rhapontic rhubarb.

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GUM CAMPHOR, Natural
GUM KARAYA, Whole and Powder
GUM SANDARAC
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HOREHOUND HERB
IRISH MOSS
JUNIPER BERRIES
KAMALA POWDER
KOLA NUTS
LAUREL LEAVES
LAVENDER FLOWERS
LAVENDER OIL, Spanish
LINDEN FLOWERS, with Leaves
MAHUANG, Chinese
OAK MOSS
ORANGE OIL, Sweet, Florida
ORRIS ROOT
PAPAIN
PARSLEY SEED
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governed the market last week and quotations showed a firmness out of character with the volume of prevailing request. Stocks of moderate size continued to support sellers' price views.

Chamomile—Importations of this material during the period January-May this year totaled 175,263 pounds, comparing with 83,803 pounds arrived in the corresponding period in 1946. The gain in imports has failed to weaken prices and the market at present, though not very active, continues to be firm in price and not subject to much competition.

Lavender—Demand was light to nil, according to supplier, but prices remained steady. Importations in the period January-May this year totaled 9,072 pounds, against the arrival of 49,623 pounds in the corresponding period in 1946.

Malva—It is proving difficult to increase substantially the spot reserve of this item and, consequently, the market remains very firm despite the current inactivity of consumers.

Saffron—Sales were restricted to a few pounds that failed to move into consumption at anything but very steady and mainly uncharged prices. Stocks were sufficient for more than present needs.

Gums

Aloe—Importations during the period January-May this year showed a sharp drop from those in the corresponding period of 1946. The total this year was 140,761 pounds, against 361,005 pounds for the 1946 period.

Arabic—Importations last week totaled 250 bags from Port Sudan. Arrivals during the period January-May this year totaled 2,843,911 pounds, a sharp drop from the 7,891,631 pounds arrived during the corresponding period in 1946. The spot market continued steady to firmer throughout the past week.

Asafetida—The market was quiet as to demand but steady as to price and fairly supplied with prompt delivery gum. Imports in the period January-May this year totaled 50,110 pounds, comparing with 21,175 pounds imported during the corresponding period, 1946.

Benzoin—Spot quotations on Sumatra gum were lowered to 50c. to 55c. per pound under competition during the past week. Arrivals this year during the period January-May totaled 209,850 pounds. Department of Commerce data provides no figures for the corresponding period in 1946.

Gamboge—Prices were sharply lower, mass of pipe standing at $1.70 to $1.75 per pound and powder being quoted at $1.95 to $2.

Karaya—The item was being absorbed steadily and in fair quantities at firm prices. Imports last week totaled 300 bags from Genoa, Italy. Arrivals during the period January-May this year totaled 3,901,522 pounds, which compares with 3,659,660 pounds arrived in the corresponding period, 1946.

Mastic—The spot was dull in demand but steady in price. Supply has not expanded substantially this year. Imports in January-May totaled but 2,213 pounds while in the corresponding period of 1946, they had been 4,444 pounds.

Myrrh—A part of the current firmness in price traces to the fact that stocks have not been increased during the past year. Arrivals in January-May were but 5,646 pounds while in the corresponding period, 1946, they had been 17,976 pounds. Yet all pressing needs have been and still are being met out of spot supplies.

Olibanum—Imports totaled 54 bags from Aden last week. Business was light and mainly along jobbing lines. Arrivals in January-May this year totaled 256,340 pounds, against 456,199 pounds imported during the corresponding time in 1946.

Tragacanth—This item was one of the few gums showing an increase in imports this year. During January-May, 1,888,797 pounds reached this country, against 1,571,109 pounds landed in the corresponding period of 1946. Trade continued to be confined to limited quantities last week but the price position held steady.

Herbs and Leaves

Buchu—The market was steady and prices were firm. Imports during the period January-May, 1947, totaled 76,064 pounds, against 21,070 pounds imported in the corresponding period, 1946.

Digitalis—Demand remained quiet and prices held steady. Imports during January-May, 1947, totaled 35,590 pounds, in comparison with 500 pounds reported arrived in the corresponding period, 1946.

Henbane—Demand was met on a fairly prompt delivery basis from spot stocks of moderate size. Imports, January-May, 1947, totaled 231,733 pounds, against 44,213 pounds imported in the corresponding period, 1946.

Senna—Firm to steady prices under moderate request prevailed. Imports in the pe-

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riod January-May, 1947, totaled 786,477 pounds, against 1,657,249 pounds arrived during the corresponding time, 1946.

Stramonium—Imports in January-May, 1947, dropped to 88,383 pounds from the total of 175,247 pounds of record for the corresponding period in 1946.

Miscellaneous

Cassia Fistula—Arrival of seven cases from Puerto Plata, Dominican Republic, was noted last week.

Ergot—Not much activity has been current in the spot market of late but prices have remained in line with replacement cost. Imports during the period January-May this year totaled 105,803 pounds, comparing with 73,136 pounds arrived during the corresponding period, 1946.

Grains of Paradise—Demand almost exhausted spot stocks and advanced prices to 40c. to 42c. per pound.

Kola Nuts—Supply was ample and demand was light and occasional rather than substantial and steady. Imports in January-May this year totaled 223,039 pounds, against 281,639 pounds that came in during the corresponding period, 1946.

Lycopodium—Spot stocks were smaller and prices obtained were a moderate advance over those recently prevailing. Values reached $2.75 to $3 per pound and tended to go higher still. Imports in January-May this year totaled 8,263 pounds, against the 3,918 pounds imported in the corresponding time in 1946.

Papain—Demand put prices up to $6.25 to $7 per pound, the price depending on the strength of the material and the test point guaranteed by the seller. Imports of crude papain in January-May this year totaled 143,133 pounds, against 61,556 pounds of record in the corresponding period of 1946.

Roots

Doggrass—Imported material of N. F. quality was lower at 31c. to 32c. per pound under competitive circumstances.

Gentian—Movement into consumption was slow and in moderate quantities at prices deemed very favorable by most sellers. Stocks were in good shape. Imports during the period January-May this year totaled 40,199 pounds, which was sharply below the 287,185 pounds of record as arrived during the corresponding period in 1946.

Ipecac—Imports thus far in 1947 have been less than a year ago. Department of Commerce figures for the period January-May this year give imports at 12,296 pounds, in comparison with 41,097 pounds imported during the corresponding time in 1946.

Jalap—The reason for very high prices seemed lodged in the inability to get ample shipments from Mexico. Arrivals in this country during the period January-May, 1947, totaled but 2,102 pounds, against the total of 75,232 pounds arrived in the corresponding period of 1946.

Licorice—Foreign sources of supply have raised their total shipments to high figures. Imports during the period January-May this year totaled 19,352,862 pounds, as compared with 14,441,167 pounds imported in the corresponding time in 1946.

Rhubarb—The item has been fairly plentiful of late and prices continued last week to show some softness. Imports during January-May this year totaled 108,196 pounds, in comparison with 13,059 pounds arrived during the corresponding period 1946.

Sarsaparilla—Importations from all sources during the period January-May, 1947, totaled 59,403 pounds, which compares with 47,098 pounds imported during the corresponding period 1946. Mexican root was in very light supply, and prices showed a tendency to harden after further strengthening of the position.

Senega—The item has moved into stronger position at the origin, where stocks have been reduced substantially and remain in strong hands. Spot quotations were up to $2 to $2.50 per pound, ranging according to seller and showing a disposition toward further advance on the least expansion in consuming request reaching certain quarters.

Seeds

Anise—Mexican seed was reduced to 25c. to 26c. per pound, but Syrian was fractionally higher at 26c. to 26½c.

—*Continued on page 69*

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Essential Oils, Other Aromatics

A firmer tone was noted in the essential oils and aromatic chemicals markets last week, and for the first time in a month there were advances in the prices of two products, one in each group. On the other hand, there were eleven items that declined in the essential oils field and three among the aromatic chemicals, but by and large they were minor decreases and had no depressing effect on the market.

Both of these markets seem to be running counter to the general trend in business, for while the prices of nearly all commodities are going up, the essential oils and aromatic chemicals markets have been featured for the most part by declines in recent months. How long this situation will continue was held problematical, and last week one major dealer warned that a reversal is likely to occur. It will probably come suddenly, and will bring with it a sharp increase in quotations, it was said. For that reason, buyers were advised to keep a careful eye on their inventories, and replenish them from time to time at prevailing prices. Otherwise, it was pointed out, they may be caught with only meager stocks on hand when the expected reversal of the price trend arrives.

A second note of caution, this one also to buyers, came from another quarter of the essential oils field during the period under review. An executive in one large house stated that a buyers' strike seems to have hit the industry. This may, in the long run, cause more hardship to the buyers than to the sellers, he pointed out. Since some products must be sold at such low prices in order to move them at all, it was considered possible that dealers may eventually take them off the market entirely. Should this happen among any considerable group of dealers, the market would immediately change in favor of the sellers, and the buyers would probably have to show a willingness to pay increased prices before the dealers would be willing to place their products back on the market.

Seasonal increases in demand were being felt during the week from the medicinal, cosmetics and food industries. Spices were on the upswing and were expected to continue in that direction for some time to come. A brisk turnover was also noted in flavorings, brought about largely by the Christmas buying of the confectionery trade. Perfume and toiletries manufacturers were showing more interest, but whether their buying this year would be up to last year's levels could still not be determined. That question will probably be decided by the extent of the inventories held by the retail outlets. No information was available during the week on just how much these inventories amount to.

Although a definite pickup has been noted with the waning of summer, it was still too early to tell what the post-Labor Day period holds in store. However, there was more optimism than pessimism concerning trade possibilities during the next few months.

An improved sugar supply and favorably warm weather have had their effect in bringing in requests for numerous seasonal items in fairly heavy quantities. Dealers, however, were expecting a break in the summer trade momentarily.

It was reported that the American market has been affected by the competition now offered by Europe and South America in the export trade. Although some business leaders hold to the opinion that export competition from other countries would have little effect on United States trade, leaders in the essential oils field were inclined to hold the opposite view and pointed out that theirs is a relatively small industry and has a vital need for foreign as well as domestic markets.

Market Trends

Prices Advanced

Diethyl phthalate, 13c. per lb.
Sandalwood oil, NF, Mysore, 25c. per lb.

Prices Reduced

Birchtar oil, crude, 5c. per lb.
Bois de rose oil, Brazil, 40c. per lb.
Cajeput oil, 10c. per lb.
Cananga oil, rectified, 65c. per lb.
Cassia oil, USP, 25c. per lb.
Cedarleaf oil, USP, 10c. per lb.
Cedarwood oil, 9c. per lb.
Citronella oil, Java, 25c. per lb.
Citronellal, $6.10 per lb.
Clove oil, USP, 5c. per lb.
Eucalyptus oil, USP, rectified, 80-90%, 15c. per lb.
Eugenol, pure, USP XII, 5c. per lb.
Hemlock oil, 15c. per lb.
Isoeugenol, 5c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
152.6	153.8	167.5	203.1

(For Current Prices see Page 9)

Essential Oils

Anise—The Russian, USP, was unchanged in price last week, being quoted at $3.75 on the inside and with no figures available for the outside. Some firms reported they were without stocks of the oil. The Chinese oil, unchanged at 65c. to $1, continued to show the effect of the dollar exchange in Hong Kong rather than costs and selling prices at the source.

Birchtar—The crude oil dropped in price 5c. a pound last week, to establish the range now at 95c. to $1.76. No particular changes were noted in the supply and demand pictures.

Bois de rose—A decrease of 40c. a pound on the inside of the range was noted during the period under review, but the outside figure remained the same and otherwise the market for the product was featureless. The oil is now listed at $3.50 on the inside, while the outside price is still $5.50.

Cajeput—A decrease of 10c. a pound for the redistilled, USP IX, was reported by one major dealer last week. The change established a new inside figure of $2.50, while the outside price remained unchanged at $3.40.

Camphor—During the first five months of this year declared exports of the product from Hong Kong to the United States amounted to 3,600 pounds, with a value of $1,440, according to recently released government figures. The synthetic product last week was unchanged at 15c. on the inside of the range, although the outside jumped from 35c. to 40c.

Cananga—No changes were reported in the native product during the period under review, but the rectified was decreased 65c. a pound. This change established the new price range at $9.35 to $12.60.

Cassia—The price range for this product changed from $3 to $2.75 on the inside, but the outside was still $3.75 last week. The United States, during the first five months of 1947, imported 42,440 pounds of this oil from China, with a total value of $96,602, according to government statistics. The oil is in particularly good demand now because of the increased activity in the pickling industry.

Cedarleaf—A decrease of 10c. a pound was noted for this oil during the period under review but otherwise the market was without feature. The inside figure was reestablished at $2.15 a pound, while the outside remained at $2.85. As to supply and demand the product was in about the same position in which it was during the previous week.

Cedarwood—The price in cans dropped from 70c. to 61c. during the week, dealers reported, but added that the demand continued to be good and the supply steady. Five drums of the product were received in New York from Africa during the week.

Citronella—Thirty-seven drums of this oil landed in New York last week from London. The price of the Java oil continued its downward trend and was reported at $1.50 on the inside, which was a reduction of 25c. The outside remained at $4.75.

Clove—This product came down from $1.40 to $1.35 last week on the inside, but the demand for it was good, largely because of the fall pickup in the pickling business. Supplies, it was said, were adequate to meet expected demands.

Coriander—The inside price of this oil was unchanged at $17 during the week, but there was a reported decline, from $30 to $25 on the outside. Some dealers reported that the product was expected to be in a firmer position soon, but others said they saw no indications of this and reported that demands so far had been light and spotty. Supply was said to be only fair, although it was considered adequate to meet the current demands.

Dillweed—Demand for this product was strong during the past week and prices held firm at $4.45 to $5.25. Supplies were shorter this season although demands from the pickling industry held up well.

Eucalyptus—The USP, rectified, 80-90 percent, showed a reduction of 15c. a pound during the past week, establishing a new inside price at $1.05. The outside remained at $1.45. Quotations were considered generally low, reflecting the lower replacement costs from established Australian distillers.

Geranium—The Algerian oil was still being quoted at $16 to $21 last week, although

For Late Market Developments, See Page 4

one dealer reported that he had cancelled quotations on the product. The Bourbon, Russian and Turkish oils were featureless.

Hemlock—A decrease of 15c. a pound on the inside of the range was noted for this product during the period under review, but the outside price remained the same. The oil was being quoted at $2.25 to $2.75.

Laurel—Little activity was shown in the market for this product last week, and the price range remained unchanged at $20 to nominal, a condition in which it has been for some six months. Some dealers reported they were without stocks of the oil.

Lemon—Two cases of the Italian oil arrived in New York from Messina during the period under review, but otherwise the market was dull. Lemon oils in general are now more freely available but there have been no great accumulations of stocks because of the increasing demands.

Lemongrass—This product was reported unchanged at $1.30 to $2.30 last week. It has declined substantially in recent weeks and although some resistance was shown, it was only brief and the oil is now back to former levels. Experiments have been made in the cultivation of lemongrass in Trinidad with a view to the development of an industry there, it has been reported. The British press states that satisfactory yields were obtained and it has been suggested that growth of the plant should be encouraged in otherwise unproductive spots and the produce sold to a central buying agency. During the week nine drums arrived in New York from India and two from the Dominican Republic.

Lime—No changes in the price structure of these oils were reported during the week, and it was said that they are more favorably priced now than they have been in many years. In Mexico, it was reported, some attempts are being made to control production and maintain prices at or above the present levels. The West Indian prices are still noticeably higher than the Mexican.

Orange—The price ranges for the various orange oils were reported unchanged last week, although they were reported in better demand and supplies were said to be more plentiful.

Petitgrain—Despite the troubled political situation in Paraguay, it was reported that the production of this oil was expected to be near normal this year. All production centers are located within the territory controlled by the Paraguayan government and to date there have been no reports of damage to distilleries. During the first five months of this year, 152,331 pounds of the oil arrived in the United States. The imports were valued at $395,663. During the previous year this country received from Paraguay 357,882 pounds of the oil, valued at $896,472.

Rose—A government monopoly, under national control, has taken over the entire rose oil industry in Bulgaria, which is the world's largest producer of this oil. Purchase and sale may be conducted only by the government and although many of the twenty four large distilling plants are nominally owned by individuals, they are actually under government direction according to United States government information.

Rose oil production in 1946 was reported at only 794 kilograms, or about one-fifth of the 1939 output. The amount produced this year is expected to be even lower. Frost and drought in the spring of this year contributed to the decline and some reliable sources predict a total production of only 500 to 600 kilograms for the entire year.

During the war there was little activity in the rose oil industry. The wartime policy caused a shift of production from roses to food and medicinal crops. From 1941 to 1943, rose oil exports were prohibited, and limitations were placed on the amount of oil an individual could purchase domestically. In 1946 the total hecterage was 2,810, as compared with the 1939 figure of 6,338 hectares.

Prices of the oil, in terms of the Bulgarian leva, have increased tremendously during the last few years, although the value of the leva has, of course, declined with the increased costs of living and production. The competition brought about by synthetics, as well as the existence of large stocks of the oil, have tended to produce an unfavorable outlook for the industry. Of the entire hectarage in 1946, only 46 hectares were in newly planted bushes, compared with 108 hectares in 1939. Although some increase in planting has taken place, it is still not sufficient to match the rate of abandonment of old gardens.

While rose oil has been considered almost a Bulgarian monopoly, some offerings have been made by Turkey and the U. S. S. R. This development, in the Caucasus and Crimean regions of the U. S. S. R., was aided by the export of rose bushes from Bulgaria.

Rosewood—Six drums of this product were received in New York last week from Brazil.

Sage—The price range for this oil re-

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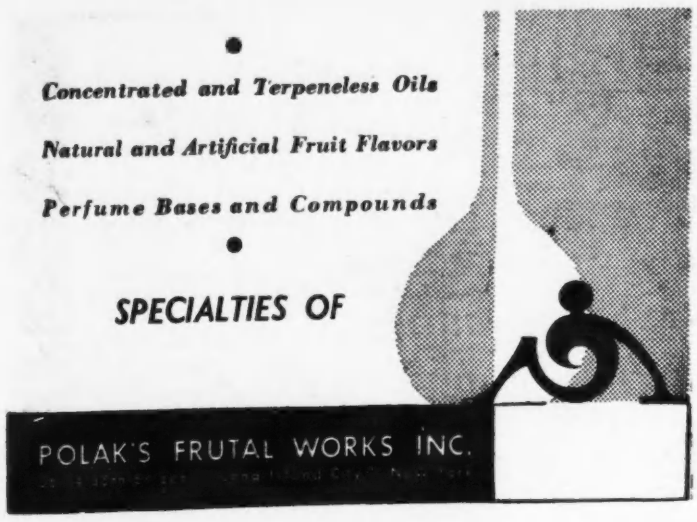

mained the same last week and was considered to be at an advantageous level for buyers. The product was said to be in excellent supply.

Sandalwood—The official price of the NF, Mysore, was announced at $13.75 a pound last week, which was an increase of 25c. from the last previous listing. The outside figure remained at $22.50. Demand for the product was said to be about routine. Supply was reported not up to normal, although adequate to meet moderate demands.

Wormseed—This product was said to be in good supply last week and demand for it was at a fair level. The price range was unchanged at $4.25 to $5.50. Prices for the product were considered fairly low despite the fact that new crop distillation is many weeks distant.

Aromatic Chemicals

Citronellal—With some dealers still not offering this product, one major supplier last week announced that the item had just been restored and quoted it at $2.75 a pound. This was a considerable decrease from the last listed figure of $8.85. The outside of the range was unchanged at $10.40.

Citronellol—The inside price for this product remained at $3.85 last week, but for the first time in a considerable period an outside figure was also listed for the product. The new higher price is $4.75.

Coumarin—Although there was no change announced in the established price of $2.75 a pound for this item, it was said that the product is still in fairly short supply, although enough stocks were said to be on hand to meet normal requirements.

Diethyl Phthalate—An increase of 13c. a pound was reported for this product during the period under review. The new range is 45c. to 50c., and, according to one dealer, the price is expected to stay at that figure or possibly go higher.

Eugenol—The pure, U.S.P. XII, showed a decrease of 5c. a pound last week on the inside of the range although there were no reported changes in the outside price. The range is now $2.35 to $3.25.

Geranyl Acetate—An outside figure of $3.85 was announced for this item during the period under review. For some time only an inside quotation had been listed. That was $3.35 and remains the same.

Hydroxycitronellal — Because citronella Java is now available in quantity and at low prices, the cost of this product has come down considerably. It is now flooding the market and going at $6.50 to $7.50, although to make money dealers say they should be selling it at $10 to $12. The supply far exceeds the demand.

Isoeugenol—The price of this product in cans came down 5c. a pound last week, to establish a new figure of $3.25. The outside remained at $4.

Menthol—The U.S.P. laevo, was quoted at $8.90 last week. This was the first quo-

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tation made on the product in some time, prices having been unavailable previously.

Musk—Declared value of musk from Hong Kong to the United States during the first five months of 1947 were 237 pounds, with a value of $72,043. The synthetics last week were unchanged in price except for the ketone which went up from $5.15 to $5.20 on the outside of the range.

Vanillin—This product was said to be in short supply last week and no increases in stocks were expected in the near future. The price range was not affected, however.

Yara Yara—The item was in tight supply during the period under review and dealers said they could not predict when the situation would improve. One dealer announced that he had cancelled quotations on the product.

Halfpenny Heads Advertising For Northam Warren Corp.

Northam Warren Corporation, manufacturer of toilet preparations, Stamford, Conn., has appointed Arthur G. Halfpenny general advertising manager. With the company for seven years, Mr. Halfpenny was previously assistant to the general manager. Before joining Northam Warren he was associated with Ritchie & Janvier, cosmetic and drug sales representative.

Botanical Market

—Continued from page 65

Caraway—An odd development was the arrival of 100 bags of this item from Lisbon, Portugal. Also, 850 bags reached here from Rotterdam without prices developing movement.

Celery—Indian seed in shipment position advanced to 22c. to 22½c. per pound. Spot quotations lacked development.

Coriander—Spot Argentine seed has disappeared, but futures were offered at 7c. to 7½c. per pound. An arrival of 438 bags from Casablanca, Morocco, was reported. Peruvian was traded in at the higher price of 9c. to 9½c.

Fenugreek—Spot Indian seed advanced to 9½c. to 10c. per pound, and futures were up to 9c. to 9½c. Imports during January-May, 1947, totaled 563,929 pounds, comparing with 238,662 pounds of recording for the corresponding period of 1946.

Gold of Pleasure—Shipment quotations were advanced to 30c. to 31c. per pound.

Mustard—Dutch yellow was higher at 17c. to 17½c. per pound. Market comment about the preliminary crop report of the Department of Agriculture suggested that the figures proposed were too high. New crop brown seed from Montana was quoted higher at 10c. to 10½c. per pound and new crop yellow was up to 14½c. to 15c. on the strength of such opinions held at the origin.

Poppy—Dutch futures were advanced to 21c. to 21½c. per pound. An arrival of 454 bags from Copenhagen, Denmark, was noted.

Spices

Cassia—All medium Saigon cassia was up sharply to 33c. to 33½c. per pound.

Nutmegs—West Indian nutmegs were quoted 53c. to 54c. per pound, and East India material was much firmer locally.

Pepper—Activity was broader. Demand ran black pepper up to 40c. to 41c. per pound done and with more business in sight thereat. Futures rose to 37c. to 38c.

Markets at Other Centers

Los Angeles, Sept. 11.—This market has been unsettled for the past few weeks. Prospects for the fall look good. Inquiry for futures has been excellent. Prices were generally lower.

Marjoram—French type, 45c. per pound in dried form.

Sage—Dalmatian type, 28c. per pound for lots said to contain less than 12 percent stems.

Savory—French type, 6c. per pound.

Sweet Basil—85c. per pound for lots containing less than 12 percent stems.

Thyme—French type, 70c. per pound in dried and clean form.

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Protective Coatings Materials

Following the recent general increase in zinc pigments, the price trend of protective coatings materials took another upward turn last week as leading suppliers announced advances for black, brown, red and yellow synthetic iron oxides, brown metallic oxide, umbers, Venetian reds and French-type, yellow natural iron oxide.

Increased labor and materials costs were held responsible for the price boosts. Advanced uniformly ½c. per pound were black, brown, red and synthetic iron oxides. Brown metallic oxide was upped ¼c. per pound, while umbers were advanced ¼c. per pound for both the American and Turkey types of the burnt and raw grades. Venetian reds were increased 1/10c. to 1/5c. per pound at a progressive rate varying with the percentage. Advanced 1/10c. per pound were the 15 percent, 20 percent and 25 percent products. The 30 percent material was increased 3/20c. per pound, while the 35 and 40 percent grades were boosted 1/5c. per pound. Finally, the French-type, yellow natural iron oxide was raised ¼c. per pound.

An interesting development in the price situation during the week occurred in the vegetable oils market, where quotations on flaxseed declined. As a result, prices on October-December shipments were down 1c. per pound.

Fillers and extenders were firm last week, as an expected general advance in the price of blanc fixe failed to materialize. Supplies of pumice, slate flour and silica were said to be free, while some scarcity was reported for barytes and blanc fixe. Silica prices were firm during the week, despite recent fluctuations in that section of the market.

Some slackening in demand for synthetic resins was reported during the week, particularly for materials used in industrial finishes. Architectural resins were said to be in better demand, and October price quotations were viewed as completely dependent on future materials costs. Alkyd resins, for example, which are entirely based on oils, fatty acids and glycerol, would have to go up, it was said, if these materials were advanced. For the time being, however, most producers held fast at previous price levels.

Supplies of most lacquer materials were said to be rather ample last week, with demand off somewhat, but still strong. Methanol and acetone were said to have become rather short in the past ten days, and some lacquer producers were reported to be turning down export business as a consequence.

Owing to increased shipping costs, leading shellac importers advanced prices of certain grades last week, boosting lemon number one 3c. per pound, lemon number two 2c. per pound, the superfine grade 2c. per pound and the TN product 2c. per pound. At the same time, a delayed report from India revealed that the government there was cognizant of the threat posed to the Indian shellac industry by the increasing use of synthetic resins. The government report suggested two ways to improve the current situation: reduce prices and improve the product.

Market Trends

Prices Advanced

Black, iron oxide, synthetic, ½c. per lb.
Brown, iron oxide, synthetic, ½c. per lb.
oxide, metallic, ¼c. per lb.
umber, burnt, American, ¼c. per lb.
Turkey type, ¼c. per lb.
raw, American, ¼c. per lb.
Turkey type, ¼c. per lb.
Red, iron oxide, synthetic, ½c. per lb.
Venetian, 15%, 1/10c. per lb.
20%, 1/10c. per lb.
25%, 1/10c. per lb.
30%, 3/20c. per lb.
35%, 1/5c. per lb.
40%, 1/5c. per lb.
Shellac, Lemon, No. 1, 3c. per lb.
No. 2, 2c. per lb.
sunerime, 2c. per lb.
TN, 2c. per lb.
Yellow, iron oxide, natural, French type, ¼c. per lb.
synthetic, ½c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
181.0	180.7	179.8	154.5

(For Current Prices see Page 9)

Prime Pigments

Black, Bone—Total production of this material in May of this year amounted to 847 short tons, as against 1,105 short tons in July, 1946, the Department of Commerce reported last week. Shipments in May totaled 827 short tons, compared with 935 short tons in July, last year. Stocks at the close of May, 1947, were registered at 979 short tons, opposed to 1,704 short tons on hand on July 31, 1947. Figures for June and July of this year were not available.

Black, Synthetic Iron Oxide—This pigment was advanced ½c. per pound by major suppliers, as demand continued active and supply was said to be somewhat improved. Current quotations for the product in bags call for 9¾c. per pound, carloads, and 10c. per pound, less-carload quantities.

Brown, Metallic—As demand began to take up some of its recent slump and supply continued good, major suppliers of this material boosted price schedules ¼c. per pound. This product in bags is currently quoted at 2¾c. to 3c. per pound, as against the previous listing of 2½c. to 2¾c. per pound.

Brown, Sap Crystals—No changes in price schedules were noted for this material last week, as the regular grade continued to sell for 12c. per pound and the powdered type remained at 13c. per pound. Supplies were still said to be fairly free, and demand was reported to have picked up a little.

Brown, Sienna—Good supply situations prevailed for this pigment last week, as price quotations on all grades held steady at previous levels. Demand was reported to be a bit better than it has been in recent weeks. On the basis of current conditions, no change in the price structure was anticipated, at least, not until the end of the year.

Brown, Synthetic Iron Oxide—With demand for the product continuing fairly heavy, quotations were upped ½c. per pound by leading producers last week. The present quotation on the material in less-carlot quantities is 12c. to 12½c. per pound in bags. Owing to meager stocks of the pigment, carload prices were not available.

Brown, Umber—Although supplies were said to be rather ample and demand for the material was only moderate, prices were upped last week in amounts that varied with the grade. American and Turkey burnt umbers were advanced ¼c. per pound. American and Turkey raw umbers went up ¼c. per pound. Current quotations are:—American burnt umber, 5c. per pound, carloads, 5¼c. per pound, l.c.l.; Turkey burnt umber, 5¼c. per pound, carlots, 5½c. per pound, less carloads; American raw umber, 5¼c. per pound, carlot quantities, 5½c. per pound, l.c.l., and Turkey raw umber, 5½c. per pound, carloads, 5¾c. per pound, less carloads.

Brown, Vandyke—Market position of this material continued unchanged last week, as supply remained good, demand was moderate and prices were firm at previous levels. Quotations are 10c. to 11c. per pound in barrels.

Red, Indian—Supply and demand situations of this material were unchanged last week, as the former continued short and the latter remained strong. Current quotations for the product call for 10c. to 10¼c. per pound, for the pure, domestic grade, f.o.b. eastern shipment points.

Red, Metallic—No change in the market position of this material was noted during the week, as supply, demand and price schedules remained at levels of previous weeks.

Red, Persian Gulf Oxide—Importers reported no substantial improvement in ship-

Paint, Varnish, Lacquer Sales: July

The value of paint, varnish, lacquer and fillers in July, 1947, as reported by 680 establishments to the Bureau of Census, was $86,864,747. Details of sales reported by these establishments, with comparative data for 1946 and 1945, follow:—

	Total sales reported by 680 establishments.	Classified sales reported by 580 establishments: Trade-sales of paint, varnish, and lacquer.	Industrial sales: Total.	Paint and varnish.	Lacquer.	Unclassified sales reported by 100 establishments.
1947—July	$86,864,747	$17,871,119	$30,078,776	$23,203,942	$6,874,834	$8,914,852
Total, 7 months	631,814,324	141,324,625	227,725,828	171,233,278	52,016,240	67,040,181
1946—July	65,187,312	14,936,539	24,256,325	17,983,418	6,272,907	5,944,448
Total, 7 months	451,242,820	251,268,806	155,007,247	55,632,428	99,027,467	45,466,772
1945—July	52,623,438	22,689,192	24,485,398	18,578,502	5,907,196	5,448,848
Total, 7 months	302,707,980	172,241,271	156,342,932	115,203,889	39,138,043	36,120,777

For Late Market Developments, See Page 4

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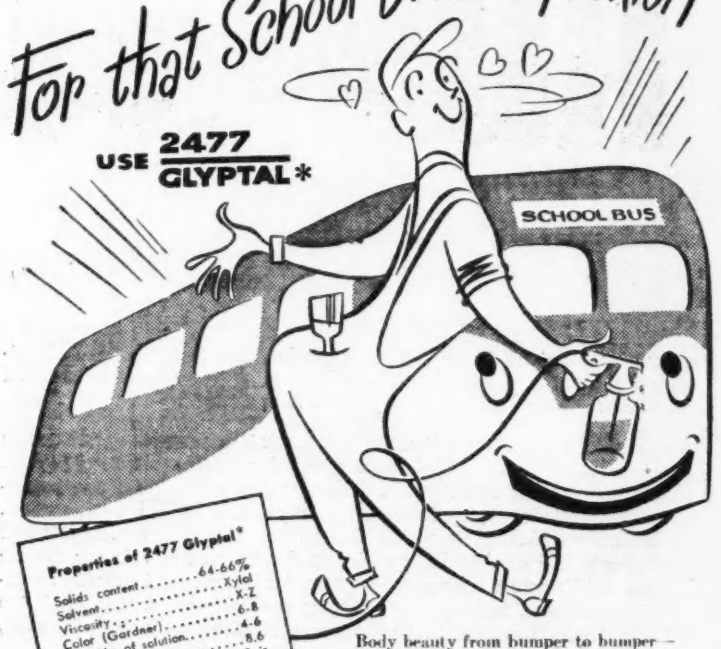

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Air dry—setting time	Medium
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Gloss	Excellent
Gloss retention	Excellent
Color retention	Excellent
Water resistance	Excellent
Oil and gasoline resistance	Excellent
Weather resistance	Excellent
Specific gravity (resin)	1.13
Phthalic anhydride (resin)	35%
Rosin or derivatives	None
Oil acids content	45%
Type of oil	Castor

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Water Paint Sales: July

(Formerly Plastic Coldwater Paint Sales)

Sales of resin emulsion paints, plastic-texture paints, coldwater paints and calcimines for July, 1947, as published by the Bureau of Census, are based on reports submitted by 47 manufacturers, of whom nine reported data for resin emulsion paints exclusively. Nine of the remaining 38 manufacturers also reported sales for this product, bringing the total number to 18 for resin emulsion paints. The data for plastic-texture paints, coldwater paints and calcimines are based on reports received from 38 identical manufacturers who accounted for approximately 87 percent of the total value of these materials. The July statistics, as compared with those of the corresponding month in 1946, follow:—

Plastic-Texture Water Paints

	Pounds	Value
*Total	2,506,000	$197,413

* Includes paste and dry powder plastic-texture water paints which cannot be shown separately without disclosing the operations of the individual companies.

Resin Emulsion Paints

	Gallons	Value
Interior	752,362	$1,504,434
Exterior	14,145	34,113

Coldwater Paints

	Pounds	Value
Exterior, lime or cement-bound	3,592,087	$321,924
casein-bound	287,291	23,000
Interior, casein-bound, paste or semi-paste	*264,400	389,261
dry powder form	1,815,586	100,535
glue-bound	220,619	13,643

* Gallons.

Calcimines

	Pounds	Value
Hotwater	783,279	$43,971
Coldwater	699,194	39,116

Sales of these products for July, as compared with those for the corresponding month last year, were as follows:—

		July 1947	July 1946
Plastic paints	lbs.	2,506,000	1,678,772
	value.	$197,413	$115,070
Resin emulsion paints	gals.	766,507	*
	value.	$1,538,547	*
Coldwater paints	value.	$848,760	$769,428
Calcimines	lb.	1,482,473	1,658,723
	value.	$83,087	$73,170

* Not available.

ments of this material, although better quantities of the product were said to have arrived in this country than heretofore. Asking price for the oxide last week was 6¾c. per pound.

Red, Spanish Oxide—Although shipments of poorer grades of this pigment have been arriving in moderate amounts, importers still reported a severe shortage of the better-type pigments last week. The number one grade is currently being quoted at 5¼c. to 6¼c. per pound, carloads. Bottleneck to the whole supply situation is the poor state of transportation facilities at the source. Since conditions in Spain continued unsettled last week, little hope was expressed in the market here of an early easing of the situation.

Red, Synthetic Iron Oxide—This product was upped last week ½c. per pound, as some headway against the backlog of orders for the pigment was reported by suppliers. The present prices for the pure material range from 10½c. to 10¾c. per pound. The 85 percent reduced and the 80 percent reduced materials were steady at previous price levels, the former at 6¾c. per pound, l.c.l., and the latter at 8.5c. to 9.4c. per pound, less carloads.

Red, Venetian—Progressive price increases for this pigment were announced by major suppliers last week, with the 15 percent, 20 percent and 25 percent materials up 1/10c. per pound; the 30 percent product boosted 3/20c. per pound and the 35 percent and 40 percent pigments increased 1/5c. per pound. The present price schedule follows:—15 percent grade, 3.10c. per pound; 20 percent, 3.20c. per pound; 25 percent, 3.50c. per pound; 30 percent, 3.80c. per pound; 35 percent, 4.15c. per pound, and 40 percent, 4.40c. per pound.

Yellow, Natural Iron Oxide—The French type of this material was upped ¼c. per pound last week, as the French, Peruvian and ordinary grades of the product were said to be in fairly free supply. The French grade was quoted at 4c. per pound, carloads, and 4¼c. per pound, l.c.l. Ordinary and Peruvian grades were firm at former levels.

Yellow, Ocher—No changes in the market position of this material were noted during the week, as supply, demand and prices remained at levels of previous weeks. The American golden grade in bags was quoted at 1¼c. to 2¾c. per pound, f.o.b. works.

Yellow, Synthetic Iron Oxide—A ½c. per pound increase in price was announced by leading suppliers last week, as demand continued at an active pace. Current quotations call for 8¼c. per pound, carloads, and 8½c. per pound, less carlot quantities.

Fillers and Extenders

Blanc Fixe—The expected increase in the general price structure of this section of the market failed to materialize last week, as the carload price of the dry, by-product material held firm at a range of $67.50 to $72.50 per ton, f.o.b. mines. Less-carlot quotations were also steady at $72.50 to $80 per ton. However, in view of the recent advances by two major suppliers of $5 and $7.50 per ton, it was expected that the rest of the producers would shortly follow suit. Some scarcity of the material was reported, as the demand held at previous levels.

China Clay—Imports last week totaled 80 casks of China clay from London and 177 tons of the same material from Avonmouth. Ball clay shipments from Avonmouth were registered at 1,554 tons, while the same port accounted for 500 tons of blue clay. No change in the market condition of these materials was noted during the week. The imported powdered product was quoted at $60 to $100 per ton for less carlot quantities, warehouse.

Silica—Supply and demand both continued at former levels last week in this section of the market, the former plentiful and the latter moderate. Prices, which have shown some fluctuation in recent weeks, were firm during the week at the following quotations: the 325-mesh, amorphous, dry-ground product, $24 to $40 per ton, carloads, works, $29 per ton, less carloads; the 320-mesh, amorphous, wet-ground material, $24 to $40 per ton, carloads, f.o.b. mines, $29

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per ton, l.c.l.; hard-quartz, 99½ percent, 325-mesh, $20 per ton, carload quantities, $25 per ton, l.c.l., and the 140-mesh, hard-quartz product, $15 per ton, carlots, f.o.b. works, $20 per ton, l.c.l. On the basis of current conditions, it was believed in informed quarters that these prices would likely hold through to the end of the year, as the current freight rate hearings would have little bearing on the price structure of this material.

Slate Flour—This section of the market was stable at previous levels, with supply continuing free and demand retaining a steady, though moderate, pace. The less-carlot price of the material at the warehouse last week was $20 to $60 per ton.

Synthetic Resins

Alkyd Resins—Producers of these materials held the price line last week, despite the generally-expected increase in the price structure. The general view seemed to be to hold off on further price changes until a better picture of the raw materials situation could be determined. Dependent as these resins are on oils, fatty acids and glycerol, any upward move on these materials would very likely bring a similar increase in alkyd resin quotations. Meanwhile, supply and demand factors in this section of the market remained unchanged, retaining levels of previous weeks.

Ester Gums—These materials were still reported to be more or less in balance next week, while prices held fast at newly-established levels. Last month's price reduction of esters of polymerized rosin and hydrogenated rosin esters were absorbed in a generally firm market, and pentaerythritol ester decreases were likewise confined within the steady price structure.

Lacquer Materials

Orthonitrobiphenyl—The market position of this material was unchanged during the period under review, supply, demand and price quotations remaining on a par with previous weeks. Quotations for the technical product were 12c. per pound, drums, carlots, and 13c. per pound, less-carload quantities.

Triethyl Phosphate—No change was noted in this section of the market last week. Prices for the material during the week were as follows: 38c. per pound, drums, carload quantities; 39c. per pound, drums, less-carlot amounts, and 37c. per pound in tankcars.

Miscellaneous Materials

Casein—Imports during the week totaled 6,084 bags of casein from Buenos Aires. Prices were firm. Domestic dry casein production for July was estimated at 3,640,000 pounds, up 45 percent over the output of July, 1946, and 27 percent above the July five-year average, the Bureau of Agricultural Economics reported. For the first seven months of 1947, output totaled 22,228,000 pounds, more than double the output of the corresponding period last year and 10 percent above the five-year average production during the same portion of the year. The seasonal decline from June to July was less sharp this year than either a year ago or the five-year average. The 19 percent June-to-July decrease this year compares with 26 percent last year and an average decline of 33 percent during 1941 through 1945. Manufacturers' stocks of dry casein on July 31 were the lowest of any date on record. Estimated holdings of 1,900,000 pounds for the date were 46 percent under a year earlier, which were 3,500,000 pounds.

Shellac—With unsettled condition continuing in India, major importers boosted shellac prices 2c. to 3c. per pound, lemon number one rising 3c. per pound; lemon number two up 2c. per pound; the superfine grade advanced 2c. per pound, and the TN product increased 2c. per pound. Domestic stocks were said to be somewhat narrow last week, and demand was reported to be on the rise. Meanwhile, a delayed report from India last week showed that the government there was aware of the threat posed to the shellac industry in that country by the increasing use of synthetic resins. To survive, the government report said, the Indian shellac industry must lower prices and improve their product. Imported last week from Calcutta were 400 bags of seedlac and 125 bags of buttonlac.

Naval Stores

Gum turpentine prices on the Savannah market rose ½c. per gallon at the early part of the week only to decline to its opening price of 61c. per gallon. Sales high-point for the week was 200 barrels on Thursday.

Gum rosin prices on the Savannah market advanced 1c. to 26c. per hundred pounds during the week. Grade E was up 20c. per hundred pounds; grade F rose 2c. per hundredweight; grade G up 26c. per hundred pounds; grade H increased 17c. per hundredweight; grade I advanced 1c. per hundred pounds, and grades WW and X boosted 18c. per hundred pounds.

Savannah, Sept. 12.—Following is a record of the turpentine market for the week:—

	Bulk, gallons		Barrels		
	Cents.	Sales.	Receipts.	Shipments.	On hand.
Monday	61	3	121	4	9,936
Tuesday	61½	120	121	219	9,888
Wednesday	61½	...	346	104	10,130
Thursday	61	200	...	179	9,957
Friday	61	100	500	299	10,152

Savannah, Sept. 12.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.50	$6.50	$6.50	$6.50	$6.50
D	6.50	6.50	6.50	6.50	6.50
E	6.55	6.55	6.75	6.75	6.75
F	6.73	6.73	6.75	6.75	6.75
G	6.76	6.76	7.02	7.02	7.02
H	6.85	6.85	7.02	7.02	7.02
I	7.01	7.01	7.02	7.02	7.02
K	7.02	7.01	7.02	7.02	7.02
M	7.02	7.01	7.02	7.02	7.02
N	7.02	7.01	7.02	7.02	7.02
WG	7.02	7.02	7.02	7.02	7.02
WW	7.27	7.28	7.37	7.43	7.45
X	7.27	7.28	7.37	7.43	7.45

	Barrels				
Sales	...	...	211	100	200
Receipts	91	263	699	200	437
Shipments	...	300	...	...	150
Stocks	12,304	12,273	12,972	13,282	13,489

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No. 8 of a series

HIGHLIGHTS OF PAINT PROGRESS

1920

The jazz age was ushered in by two new white pigments—the first light-resistant lithopone and the first titanium pigment.

TEST-TUBE WHITE PIGMENTS USHER IN JAZZ AGE

ORGANIZED SCIENCE took a bow shortly after World War I at the unveiling of two new white pigments—the first light-resistant lithopone and the first titanium pigment. With these test-tube whites the paint industry proceeded to make still better and more diversified surface coatings, and raised production goals to keep pace with increased consumer demands.

These two pigments found important roles in many paint products, both interior and exterior, which previously had been limited to zinc oxide, white lead and sun-shy lithopone. In interior products light-resistant lithopone with its better color, hiding power and uniformity soon replaced the temperamental, old-style type.

In outside house paints, light-resistant lithopone proved useful in balanced proportions with zinc oxide, white lead and extenders to obtain better whiteness, tint retention, and hiding power. Within a few years such lithopone became the most used white pigment.

The first titanium pigment—titanium barium—was used to advantage in interior and exterior enamels, as well as in white outside paints. In the latter, with zinc oxide and white lead, it provided better whiteness and hiding power.

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Ammonium Nitrate

—Continued from page 3

dent, Underwriters Laboratories; R. E. Wilson, manager of the Factory Mutual Research Corporation; Garret B. James, chairman of the National Fire Protection Association's Committee on hazardous chemicals and explosives, and Matthew M. Braideen, research director, National Board of Fire Underwriters.

N. Y. Continues Ban

Nathan Horowitz, Deputy Fire Commissioner of New York City, told the conference that the prohibitions now imposed on the loading or unloading of ammonium nitrate in the New York harbor would be continued. He added that New York city has no isolated areas that could be made available for the movement of this material. He said a survey was made of the 600 miles of the city's waterfront and an additional 360 miles in nearby cities receiving fire protection from New York's fireboats and the only isolated section was at Graves End Bay and this already is the site of home construction.

Garret B. James, chairman of the National Fire Protection Association's Committee on hazardous chemicals and explosives, sought to make the point that there was too much talk about protection and precaution from fires, and too little about the variations in the manufactured material. He thought more consideration should be given to stabilizing manufacturing processes so that handlers would not run the danger of receiving one bag of ammonium nitrate that is perfectly safe and another that is dangerous.

No one rose to dispute this point, although a partial answer was supplied by John A. Dickenson, of the National Bureau of Standards. He said that immediately after the Texas City disaster, samples of the ammonium nitrate being loaded aboard the SS. Grand Camps was put under tests by five separate agencies. It was found to contain 1 percent wax, about 3 percent mineral matter and remainder nitrate. The material was an unusual high grade.

Report Avoided Issue

Colonel Frances H. Miles, jr., of the Army-Navy Explosives Safety Board and a member of the inter-agency committee set up by Secretary Snyder, said that he had refused to sign the recent report of the committee because the report avoided the paramount issue by not going on record in favor of isolating ammonium nitrate when shipped through ports. He named a half-dozen or more ports along the Atlantic seaboard and the Gulf where the material could be loaded and unloaded with comparative safety to the surrounding area.

Imports, U.S. Ports

—Continued from page 61

TRAGACANTH GUM—33 bls, Newi Noonoo & Co, Exford, Beirut
TUCUM KERNELS—833 bgs, General Foods Corp, Whittier Victory, Sao Do Maranhao
TUNGSTEN ORE—545 bgs, J W Hampton, jr, & Co, New Rochelle Victory, Cabedello
454 bgs, Metal Traders, Rio Verde, Recife
1,000 bgs, African Metal Corp, Tai Yin, Matadi
WATTLE BARK—3,332 bls, Vermilye Corp, Robin Sherwood, Durban
WORMWOOD HERBS—12 bgs, Traders Export Syndicate, Meridian Victory, Naples
YOHIMBIHI BARK—249 bls, W & A Leaman, Tai Wan, Duala

Baltimore

BOILER FLUID—21 dms, Krug Wester Gaard Boe Co, American Forwarder, Liverpool
CHROME ORE—197 tons, J S Connor, Cape San Diego, Calcutta
MANGANESE ORE—4,500 tons, Central Hanover Bank & Trust Co, Great Fall Victory, Africa
4,000 tons, E J Lavino & Co, African Glen, West African ports
612 tons, Cape San Diego, Calcutta

Boston

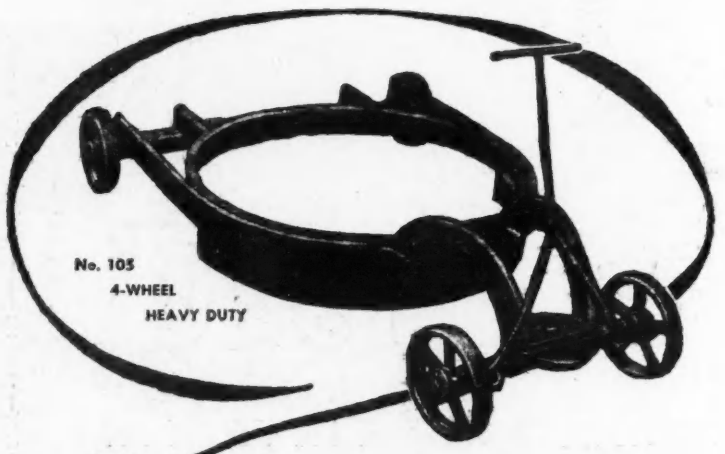
GLUESTOCK—31 bls, J Gorvers & Co, Gerda Dan, Guayaquil
595 rolls, J Gorvers & Co, Santa Clara, Barranquilla
63 bdls, J Gorvers & Co, Santa Sofia, Buenaventura
MICA—2,475 cs, Cape San Diego, Calcutta
TAPIOCA FLOUR—500 bgs, First National Bank, Anita, Itajai

Norfolk

BALL CLAY—150 tons, Moore & Munger, Montreal City, Avonmouth
CHINA CLAY—177 tons, English China Clay Sales Corp, Montreal City, Avonmouth
MANGANESE ORE—400 tons, Richard Murray & Co, Cape San Diego, Calcutta

Philadelphia

ASBESTOS—526 bgs, Keasby & Mattison, Robin Sherwood, Capetown
500 bgs, Philadelphia National Bank, Robin Sherwood, Lourenco Marques
2,880 bgs, Raw Asbestos Distributors, Ltd, Lourenco Marques
CRESYLIC ACID—50 dms, T G Cooper & Co, American Forwarder, Liverpool
50 dms, Concord Chemical Co, American Forwarder, Liverpool
MANGANESE ORE—5,560 tons, E J Lavino & Co, Tai Yin, Takoradi
1,152 tons, E J Lavino & Co, Virginia City Victory, Durban
MYROBALANS EXTRACT—704 bgs, Bingham & Co, Trevider, Calcutta
WATTLE BARK—3,214 bls, Bingham & Co, Robin Sherwood, Mombasa
ZIRCONIUM ORE—2,730 bgs, Foote Mineral Co, Mormacdawn, Santos



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Obituaries

R. Emmett Carroll

R. Emmett Carroll, founder and president of R. E. Carroll, Inc., wholesale chemical sales company, Trenton, N. J., died last week of a heart attack at his home in that city. He was fifty-two years old.

Prominent in the field of chemicals and colors sales in the Trenton area for many years, Mr. Carroll founded the organization which bore his name in 1924, and had been active as president of the company until the time of his death. He was a member of the National Paint, Varnish and Lacquer Association, the National Association of Manufacturers, the United States Chamber of Commerce, and the Trenton Chamber of Commerce.

Mr. Carroll was also prominent in politics in Trenton, having served on the board of commissioners of that city as Director of Public Affairs for a number of years, and later as a member of the Trenton Board of Education and Board of School Estimate.

Dr. Veador Leonard

Dr. Veador Leonard, physician and research chemist, who discovered hexylresorcinol, died in the Johns Hopkins hospital, Baltimore, Md., on September 11. He was fifty-nine years old.

At one time a resident physician at Johns Hopkins hospital, Dr. Leonard was later associated with Johns Hopkins School of Hygiene of Public Health, where, recognizing the need for a new antiseptic to replace carbolic acid, he developed hexylresorcinol in 1925. In recent years he maintained his own research chemical laboratory in Baltimore.

Born in Wahpeton, N. D., Dr. Leonard studied at Yale University and received his medical degree at Johns Hopkins University. During the first World War he served as an army doctor with the British until the United States entered the war, at which time he transferred to the United States Army Medical Corps.

Dr. John H. Musser

Dr. John H. Musser, professor of medicine at Tulane University, died in New Orleans, La., on September 5 at the age of sixty-four. A specialist in internal medicine, Dr. Musser was, at one time, head of the American College of Physicians and also served as vice-president of the American Medical Association in 1933-34. During the first World War, he served as a major in the Army Medical Corps and edited the American Journal of Medical Sciences from 1920 to 1924.

William H. McIntyre

William H. McIntyre, eastern sales manager of the naphtha division of the American Mineral Spirits Company, New York, died September 5 at his home in Garden City, N. Y., of a heart ailment. He was forty-nine years old.

A graduate of Pratt Institute, Mr. McIntyre had been associated with the company for nearly fifteen years. Previously he had been with Spencer Kellogg & Sons, Buffalo, the R. J. Brown Corporation, New York, and the Eastern Mineral Spirits Company.

Franklin S. Smith

Franklin S. Smith, retired president of Holbrook Manufacturing Company, maker of castile soap, died September 6 at his home in Montclair, N. J. Mr. Smith retired ten years ago from the firm which was founded by his father, the late G. R. K. Smith, in 1880.

Ferdinand Andrews, retired superintendent of the furnace department of the Raritan Copper Works, Perth Amboy, N. J., died September 11 at the Perth Amboy General Hospital. He was eighty years old. Mr. Andrews had been chief chemist and later head of the furnace department for the copper works for twenty-nine years, until he retired in 1937.

John Fischer, retired employee of Merck & Co., drug manufacturer, Rahway, N. J., died September 10 at his home in Elizabeth, N. J. Associated with the firm for thirty-four years, he was a foreman at the Rahway plant at the time of his retirement in 1936. He was seventy-two years old.

Mrs. Georgia K. Gray, for many years director of the child placement bureau of the Charity Aid Society of New York City, died at her home in Greenwich, Conn., September 5. The wife of William S. Gray, chairman of the board of the chemical manufacturing company bearing his name, she was eighty-seven years old.

Dr. Robert G. Green, member of the faculty of the University of Minnesota, died of a heart disease at his home in Minneapolis, Minn., on September 6. He was widely known for his research in virus diseases and the causes of cancer. Most recently he was working on the development of a blood test for early diagnosis of cancer.

Cyril N. Poling, president of the Poling Oil Company, wholesale fuel oil distributing firm of Westfield, N. J., died September 9 in the Elizabeth, N. J., Hospital. He was forty-seven years of age.

John D. Walther, mechanical engineer with Standard Oil Development Company, Bayway, N. J., died September 8 at his home in Westfield, N. J., at the age of forty-six. Mr. Walther was associated with Standard Oil for twenty-seven years, during which time he spent four years in Aruba, Nether lands West Indies.

Trade Briefs

Ashland Oil & Refining Company, Ashland, Ky., plans to start work shortly on its river rail tank farm and transfer point, recently purchased at Jeffersonville, Ind., from American Car & Foundry Company.

Jones & Laughlin Supply Company, Tulsa, Okla., will build a new oil refinery at Billings, Mont., for Continental Oil Company. Work will begin next spring on the structure, which, it is estimated, will cost $8,500,000.

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- Fine particle size
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Upon arrival at the Josephtown, Pa. smelter, the zinc concentrates from our New York State mines first go through a roasting process to reduce the sulphur. The resultant calcine is mixed with fuel and fluxes and finally fed in a uniform bed upon the slowly moving grates of the gas-fired sintering machine shown above. A strong down draft of air is maintained by huge fans and the fuel in the charge is ignited by a muffle gas burner. The charge is progressively fused or sintered at a very high temperature from the point of ignition to the discharge end of the machine—a distance of about forty-four feet. It is in this sintering operation that the final purification of the ore takes place, and the lead and cadmium are eliminated. The product, which is now called sinter, is crushed, sized and conveyed to our patented Electro-Thermic furnaces for conversion into ST. JOE Lead-Free ZINC OXIDE.

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GIVES ENAMEL MANUFACTURERS A HANDFUL OF FEATURES

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Solids	60% in M.S.
Viscosity	T-U(G-H)
Wt. per Gal.	7.75 lb.
Color	6-8 (Gar.)
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Pittsburgh Paint Technicians Learn New Uses of 'Pentek'

T. M. O'Neil, sales engineer for the Heyden Chemical Corporation, New York, discussed "Pentek—Its History and Application" at the September meeting of the Pittsburgh Paint and Varnish Production Club, held at the Fort Pitt hotel on September 8.

The product was described as a technical grade of pentaerythritol developed by Heyden for use in paints, varnishes and lacquers. Mr. O'Neil said it now also has secondary uses in the production of waxes, emulsifiers and wetting agents and as a plasticizer and softener for the thermoplastic resin and rubber industries.

The technical committee of the club reported that its paper to be presented at the November convention of the federation would be ready by the end of the week. The paper, "A Study of Soya-Tung Oil Combinations," deals with an investigation concerning bodied soya-tung combinations as a replacement of other drying oils.

Foster D. Snell Names Plastics Research Head

Foster D. Snell, Inc., consulting chemist and engineer, New York, has added Ernest R. Hanson to its staff to head research and development in the field of plastics and rubber. He was formerly with the Bakelite Corporation, Bloomfield, N. J., where he worked on the development of plastics, particularly of the polyethylene family and their development in extruded form as electrical insulators.

After leaving Northwestern University in 1925, Dr. Hanson joined the Halowax Corporation as chief chemist, and contributed to the development of the plastic halogenated naphthalenes, as well as the vinyl acetate-chloride co-polymers, in coatings having high resistance to water, flame and electricity. He has been granted nine patents for his inventions in the plastics field, and is the author of numerous scientific papers in the field of organic chemistry.

Rheem Appoints Gates Container Sales Manager

Rheem Manufacturing Company, New York, has named G. Wesley Gates manager of container sales, to succeed A. H. Campbell, who has resigned. Mr. Gates, who has been assistant manager of container sales in the Eastern division since June, 1946, joined Rheem in 1942 and during the war served as expediter and Washington liaison man for the company.

Chicago Paint Salesmen To Meet September 18

The twenty-fifth anniversary celebration of the Paint Salesmen's Club of Chicago will be held at the Golden Gate restaurant on September 18. The dinner meeting will be a ladies' night and Miss Adele Whitfield, director of interior decoration for the United Wallpaper Company, will be the principal guest.

Surplus Materials

—Continued from page 3

gallon; one lot, 104 gallons, $1 per gallon; Philadelphia, PHL-OL-376.

Pyrethrum dust, 16,200 pounds; Alameda, Cal., SFO-OL-349, September 24.

Rotenone dust, 28,000 pounds; Alameda, Cal., SFO-OL-349, September 24.

Soap, germicidal (mercuric iodide), 9,072 cakes, 3 cents per cake; Trenton, N. J., PHL-OL-809.

Soda-lime, 1,599 pounds, 10 cents per pound; Philadelphia, PHL-OL-376.

Talc, 75,000 pounds; Alameda, Cal., SFO-OL-349, September 24.

Tooth-powder, 30,816 containers; Alameda, Cal., SFO-OL-349, September 24.

Operating equipment and supplies currently listed in WAA open-bid or fixed-price sales include the following items:—

Bags, burlap, 4,500, 3 cents each; Trenton, N. J., PHL-OL-809.

Carbon monoxide alarm, with 0.01 percent indicator; Wilmington, Del., PHL-62-511, October 6.

Cylinders, oxygen, 104-cubic-inch, 483, $2.50 each; Philadelphia, PHL-OL-376.

Heat-exchangers, water, five, m.o.t. 400° F., m.w.p. 125 pounds; Seattle, SEL-63-42707, September 29.

Hoists, ten, various, $23.62 to $49.50 each; Trenton, N. J., PHL-OL-809.

Kettles, steam-type, one 30-gallon, $6, two 40-gallon, $8.93 each, one 60-gallon, $55; Trenton N. J. PHL-OL-809.

Motors electric, one 3-horsepower, $169, one 5-horsepower, $250; Trenton, N. J., PHL-OL-809; two 10-horsepower, $53 each, one 60-horsepower, $325.60; Philadelphia, PHL-61-614.

Pumps, nine, various, $10.60 to $115.25 each; Trenton, N. J., PHL-OL-809.

Tanks, dip, electrically heated, three; Wilmington, Del., PHL-62-511, October 6.

Tankcars, chlorine, 55-ton, three, poor condition, $2,000 each; Wilmington, Del., PHO-62-579.

Trailers, 2-ton, seven; Seattle, SEL-63-42707, September 29.

Trucks, hand, twenty-eight, various, $7.50 to $82.50 each; Trenton, N. J., PHL-OL-809; seventy, $7.90 each; Philadelphia, PHL-OL-376; gasoline-powered, fork-lift, 3,200-pound load, two, $1,000 each; Philadelphia, PHL-OL-376.

Wire cloth, bronze, 13-mill, 40-mesh, 36-inch, 1,439 square-feet, 35 cents per square-foot; Philadelphia, PHL-OL-376.

The supply officer at the Naval Powder Factory, Indian Head, Md., will receive bids (B-1-48) until September 22 for sulphuric acid which may accumulate during the fourth quarter of this year.

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Natural Products Refining Co., Jersey City.
Sharples Chemicals Inc., Philadelphia
Stauffer Chemical Co., New York
United Carbon Co., Charleston
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Current Prices

—Continued from page 33

Zinc oxide, USP, ctns., c.l., ship't point, frt. alld.	lb.	.13¼- —
l.c.l. same basis	lb.	.13½- —
Zinc oxide Pac. coast prices ½c. higher; bbls., prices ¼c. higher than bgs.		
Resinate, fused, 9% Zn, powd., dms.	lb.	.19½- —
Silicofluoride, bbls.	lb.	.15 - .16
Stearate, ctns., 2,000 lbs.	lb.	.43 - —
smaller lots	lb.	.44 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15 - —
l.c.l., same basis	100 lbs.	4.90 - —
flake, 25½% Zn., bgs., c.l., same basis	100 lbs.	4.80 - —
l.c.l., same basis	100 lbs.	5.55 - —
powd., 36% Zn., bgs., c.l., same basis	100 lbs.	6.75 - —
l.c.l., same basis	100 lbs.	7.50 - —
Zinc sulphate in bbls., 40c higher		
Sulphide, pure, bgs., c.l., dlvd.	lb.	.10½- —
l.c.l., works	lb.	.10¾- —
Barium pigment, bgs., c.l., dlvd.	lb.	.07½- —
l.c.l., works	lb.	.07¾- —
Calcium pigment, bgs., c.l., dlvd	lb.	.07½- —
l.c.l., works	lb.	.07¾- —
Luminescent pigment, frt. alld.	lb.	1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.07½- —
l.c.l., dlvd.	lb.	.07¾- —
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.		
Sulphocarbolate, NF, gran., bbls., dms.	lb.	.26 - .30
Yellow (see Yellow, zinc)		
Zinc-ammonium chloride, bbls., c.l., works.	100 lbs.	7.15 - —
l.c.l., works	100 lbs.	7.55 - —
Zinc-cadmium sulphide, fluorescent, ctns., frt. alld.	lb.	2.00 - 2.80
Zinc-formaldehyde sulphoxalate, basie, dms., works, frt. alld.	lb.	.17 - —
normal, dms., works, frt. alld.	lb.	.35 - —
Zinc-iron oxide pigment, bgs., c.l. dlvd.	lb.	.08½- —
Pac. coast	lb.	.09¼- —
l.c.l., dlvd. E. of Rockies	lb.	.09 - —
Pac. coast	lb.	.09¾- —
Zirconium acetate, solution, bbls., works.	lb.	.26½- —
Hydride, ctns., works	lb.	7.00 - 8.00
Nitrate, bgs., works	lb.	5.00 - 4.00
Oxide, 88%, grd., bbls., c.l., works.	lb.	.22½- —
l.c.l.	lb.	.22¾- —
98½%-99%, white, grd., bgs., works.	lb.	.80 - —
milled, electric-fused, bgs., 2,000 lbs., works	lb.	.46 - —
500 lbs. and less works.	lb.	.46½- .49
Oxychloride, cryst., bbls., 5 tons, works.	lb.	.20¾- —
Sulphate, basic, cake, bbls., c.l., works.	lb.	.18 - —
l.c.l., works	lb.	.18½- .20
smaller containers works.	lb.	.30 - .31½

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the Sept. 1 issue of OPD.

Paint Technology Courses Planned at Johns Hopkins

Johns Hopkins University, Baltimore, Md., will offer a course in paint, varnish and lacquer technology every Wednesday evening starting October 1. Undertaken in cooperation with the local paint, varnish and lacquer industry, the course will be conducted by Dr. William T. Pearce, formerly Technical director of Resinous Products & Chemical Company, Philadelphia, and dean of chemistry at North Dakota State College.

Miniature equipment will be installed in the lecture room, and the actual manufacture of paints, varnishes and synthetic resins will be demonstrated. The course is so designed that no preliminary knowledge of the paint industry is necessary, and it is being initiated principally to train paint technicians.

Interchemical Establishes New England Sales Branch

Interchemical Corporation's finishes division, Newark, N. J., has established a New England sales branch with offices located at 10 North Main street, West Hartford, Conn. The new branch will be under the direction of Robert K. Hungerford as New England sales manager.

Mr. Hungerford has been in the industrial finishes field for twenty-two years. He began his career with Roxalin Flexible Finishes, now a part of Interchemical. His sales force consists of:—Stanley S. Raymond, Richard A. Engel, Henry E. Bauer, Richard J. Franz and William H. Robinson.

National Barrel & Drum Ass'n To Meet in N.Y. Nov. 3-5

National Barrel and Drum Association, Inc., with headquarters in Newark, N. J., will meet at the Pennsylvania hotel in New York on November 3, 4 and 5.

Falk Names K.C. Agent

Falk & Co., Pittsburgh, has appointed Sherwood & Co., Kansas City, Mo., its representative in that city. Sherwood will handle Falk's complete line of fish and processed fish oils, alkyd resins, soybean oils, linseed oils, and other specialties manufactured for the surface coatings industries.

NEW PROFITS - - - - -

THE BAKELITE CORPORATION developed Wash Primer WP-1 for outstanding, adhesive and anti-corrosive treatment of metal suitable for overcoating with conventional types of finishes, both decorative and protective.

OUR PIGMENT M-1828, a basic Zinc Chromate manufactured under U.S. Patent No. 2,251,846 can be used with excellent performance as the active rust inhibitive pigment.

We can take care of your needs for this pigment.

Further information, formulations and samples on request.

This product is also compatible in linseed oil systems and should offer new opportunities for improving iron oxide primers made with linseed oil essentially as the vehicle.

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INDOIL CHEMICAL PRODUCTS **INDONEX**
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PLASTICIZERS

Grade	633½	634½	638½	VG
Color	Dark	Dark	Dark	Medium
Sp. Gr. (60°F.)	0.9958	0.9979	1.020	.9847
Flash °F.	450	460	510	460
Pour °F.	35	40	70	20
Viscosity 210°F., Saybolt sec.	110	125	510	103
Viscosity Index	—109	—130	—365	—110
Dist. (1 mm)°F.				
5%	405	409	498	430
30%	442	445	540	458
Evap. Loss mg/10g. (1 hr. oven 100°C.)	5	5	3	4

VINYLS—In compounding vinyl resins INDONEX VG is a satisfactory medium-colored partial replacement for dioctyl phthalate, tricresyl phosphate, etc. Because of its low volatility, retention of flexibility and physical properties on aging are excellent. (Circular 101.)

RUBBER—The utility and low cost of the dark-colored INDONEX grades 633½, 634½, 638½ in compounding of GR-S, Natural Rubber, Neoprene, Butyl and Acrylonitrile Copolymers has been fully demonstrated. (Bulletin 13.)

OTHER APPLICATIONS—All grades of INDONEX are compatible with a wide range of resins including various phenolics, modified phenolics, alkyds, acrylates, polyamides, cellulose derivatives, coal tar and petroleum resins, polystyrenes, rosin derivatives, and waxes. Many diverse applications as plasticizers, modifiers, or extenders are indicated. (Circular 105.)

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Paint Technology Courses Offered by Several Schools

Courses in "Fundamentals of Paint, Varnish and Lacquer Technology," and "The Technology of Organic Finishes" will be conducted during the Fall by the division of general education of New York University. The former course, designed for those who wish to acquire a knowledge of the basic principles of the manufacture and application of paint, varnish and lacquer products, will be conducted on Wednesday evenings from September 24 to January 14.

The second course, intended primarily for technical employees who already have a fundamental knowledge of paint technology, will be held on Tuesday evenings from September 30 to January 27. The fee for this course is $30 and for the fundamental course is $25.

In addition, the university's department of chemical engineering with offer a graduate course in "Surface Finishes" to chemical engineers as a full year's course. It will be conducted on Tuesday nights by Dr. Kronstein and will be divided into two terms. The first term will be devoted to a broad introduction to the field, and during the second term the application of surface finishes will be discussed.

Other courses being offered to paint technicians include three courses of instruction in "Oil and Varnish Technology," "Paint and Pigment Technology," and "Organic Surface Coatings" at the Brooklyn Polytechnic Institute, and a course of instruction at the Newark College of Engineering.

Blaw-Knox Gets Foreign Agency For Fat Splitting Process

Blaw-Knox Company, Pittsburgh, has been appointed by Emery Industries, Inc., Cincinnati, as exclusive licensing agent for the foreign market of the patented Colgate and Emery continuous fat splitting process for the production of glycerin for synthetic resins and pharmaceuticals, and fatty acids for soaps, cosmetics and chemical products. Blaw-Knox can also supply complete plant units incorporating this process, both in the United States and abroad.

Witco Publishes Technical Report

Witco Chemical Company, New York, has published its technical service report P-2, prepared by its technical service laboratory, explaining the use of 'Witcarb R' in paints. The report is available upon request to the company at 295 Madison avenue, New York 17.

General Mills Names Ore., Wash. Sales Agent

General Mills Inc., Minneapolis, has appointed Mount & Alsop Inc., Portland, Ore., sales representative for its chemical division in the states of Oregon and Washington. The sales organization will handle the company's complete line of vegetable, animal and marine fats and oils, as well as all organic chemical derivatives for the technical trades.

Dorward Starts New Service

Dorward & Sons Company, San Francisco, have put into service a highway tanker for the delivery of processed oils in the San Francisco bay area. Divided into five compartments of 600 gallons each for the handling of linseed oils, sardine oil products, soybean oil and Chinawood oil, the vehicle speeds deliveries and reduces costs by the elimination of the handling of drums in plant operation.

Martin Adds Montgomery To Plastics Division Staff

The Glenn L. Martin Company, Baltimore, has named T. F. Montgomery head of the engineering section of its plastics and chemicals division at Painesville, Ohio. He will work under the direction of Dr. W. J. Lightfoot, chief engineer at the plant, which manufactures vinyl chloride resins.

Mr. Montgomery has been associated for the last nine years with the fundamental and process development group of the chemicals plant division of the Blaw-Knox Construction Company, Pittsburgh, and was previously with the Youngstown Sheet & Tube Company and the Thomas Steel Company.

Oils, Fats Output, Consumption: July

The preliminary statistics of the factory production and consumption of animal and vegetable fats and oils for July, 1947, as compiled by the Bureau of Census, follows:—

Vegetable Oils

	Pounds	
	Production	Consumption
Babassu, crude	[2]	2,167,000
Refined	[2]	869,000
Castor, No. 1, crude	5,264,000	4,589,000
No. 3, crude	2,090,000	1,225,000
Dehydrated	2,039,000	2,051,000
Sulphonated	.....	236,000
Chinawood or tung oil	[2]	6,679,000
Coconut, crude	57,902,000	62,008,000
Refined	30,466,000	23,784,000
Corn, crude	20,322,000	22,828,000
Refined	20,658,000	6,927,000
Cottonseed, crude	24,035,000	28,715,000
Refined	26,287,000	56,312,000
Linseed	32,250,000	40,030,000
Olive, edible	.....	7,000
Inedible	.....	18,000
Sulphur oil or olive foots	.....	40,000
Oiticica	.....	708,000
Palm, crude	.....	3,500,000
Refined	.....	242,000
Palm kernel, crude	.....	[3]
Refined	.....	[3]
Peanut, crude[1]	4,342,000	8,507,000
Refined	7,438,000	10,064,000
Rapeseed	.....	691,000
Sesame	.....	7,000
Soybean, crude	*125,706,000	110,539,000
Refined	99,620,000	82,261,000
All other	4,163,000	1,294,000

Animal Oils

Lard, rendered (including neutral lard and rendered pork fats)	139,113,000	8,647,000
Neatsfoot oil	202,000	208,000
Tallow, edible	7,675,000	3,444,000
Inedible	91,824,000	87,030,000

Fish and Marine Mammal Oils[3]

Cod	59,000	744,000
Codliver	240,000	480,000
Marine mammal	137,000	1,705,000
Other fish	[4]30,944,000	8,106,000
Other liver	359,000	440,000

Greases

Greases (including garbage and house), other than wool	45,022,000	35,706,000
Wool grease	1,589,000	2,040,000

Secondary Products

Animal fats and oil fatty acids[7]	9,605,000	9,407,000
Animal foots, 100% basis	1,494,000	1,610,000
Fish and marine mammal fatty acids	1,142,000	403,000
Grease and lard oil	3,177,000	2,720,000
Oleo oil	3,580,000	286,000
Red oil or oleic acid	4,224,000	3,343,000
Stearic acid	3,394,000	3,815,000
Foots, from fish and marine mammal oil (100% basis)	[6]	357,000
Stearin, animal, edible	2,370,000	1,594,000
Inedible	1,484,000	1,070,000
Stearin, vegetable, oil, winter	4,394,000	2,724,000
Tallow, oil	656,000	913,000
Vegetable oil fatty acids from foots and other than from foods including fatty acids from talk oil, palm oil, refuse, etc	[7]	[7]

Other Products

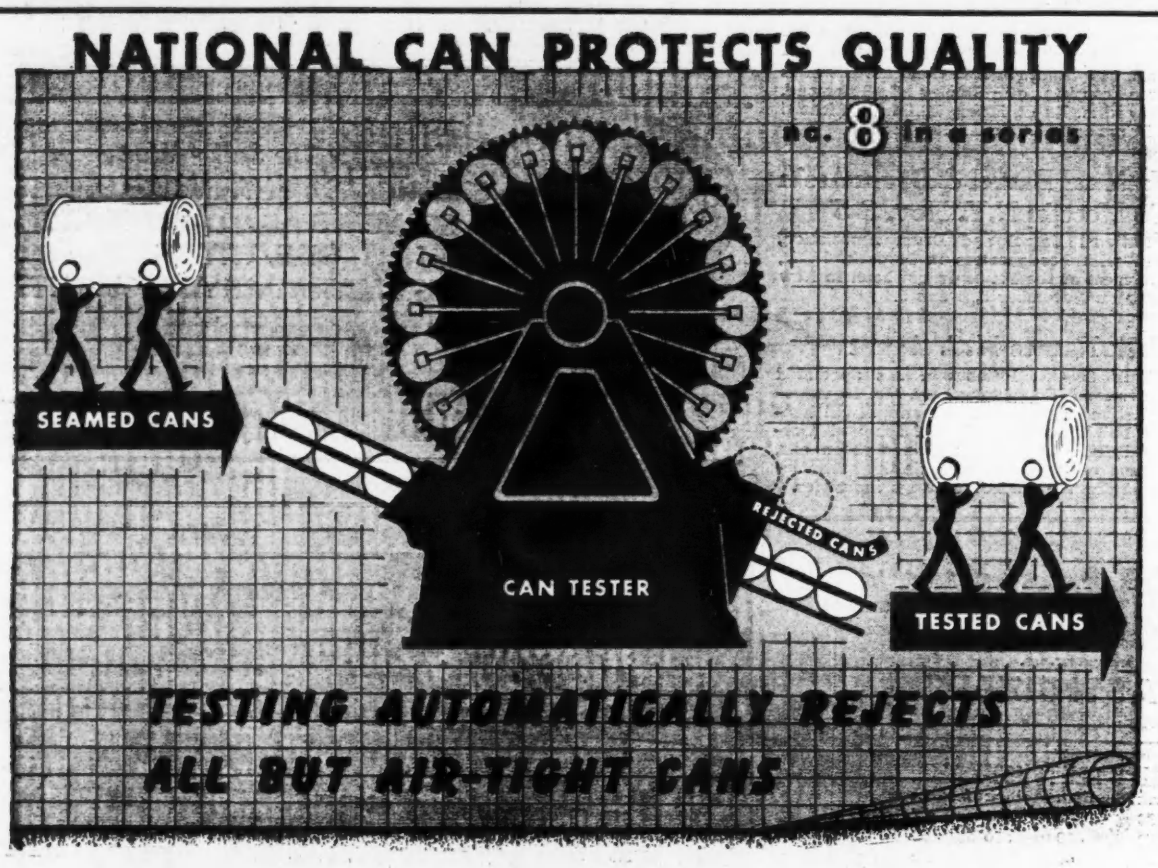
Glycerin, chemically pure (100% basis)	6,200,000	5,850,000
crude (100% basis)	12,691,000	12,418,000
high gravity and yellow distilled (100% basis)	5,483,000	6,509,000
Hydrogenated oils, edible	70,625,000	68,319,000
Inedible	12,521,000	16,114,000
Shortening	79,924,000	479,000
Winterized vegetable oils	35,151,000	.....

[1] Data on production collected by Bureau of Agricultural Economics; stocks held by crude peanut oil producers also reported by Bureau of Agricultural Economics, whereas those held at refineries are collected by the Bureau of the Census.
[2] Included in "all other" vegetable oils to avoid disclosures of operation of individual establishments.
[3] Fish and Wildlife Service collected the data from fish oil producers.
[4] Data are not available.
[5] Includes 802,000 pounds of menhaden oil and 41,000 pounds of herring, sardine and pilchard.
[6] Not shown to avoid disclosure of individual operations.
[7] Monthly data beginning January, 1947, are not comparable with those shown previously, due to the fact that three soap producing plants previously reporting fat splitting and production and consumption of fatty acids in soap are now reporting the consumption of animal fats, such as inedible tallow, in the manufacture of soap.
* Revised.

Raw Materials Used

	Tons	
	Consumption	Stocks July 31
Babassu	[1]	[1]
Castor beans	7,321	4,168
Copra	45,330	42,300
Corn germs	26,408	868
Cottonseed	73,393	98,339
Flaxseed	45,953	52,964
Soybeans	*408,380	*573,711
Peanuts[2]—		
Farmer's stock[3]	3,375	26,520
No. 2 and oil stock[4]	3,274	5,735
Other	5,289	3,052

[1] Included in other seeds.
[2] Bureau of Agricultural Economics collected the data on consumption and stocks of peanuts.
[3] Weights shown for peanuts in shell. Stocks figures include quantities held for making peanut butter, candy, and for other uses, as well as for crushing.
[4] Weights shown for shelled peanuts. Stocks figures include quantities held at all commercial locations, principally for crushing into oil and meal.
* Revised.



"Air wants to get out" as the saying goes. National Can Corporation has long recognized this. It has given a compressed air test to every one of the thousands upon thousands of metal containers to come from the double seamers.

Here's what happens at every National Can plant. Finished cans are placed in pockets on a large revolving wheel, and, after rubber pads have sealed can and pocket, air under pressure is introduced. The area outside the can but within the pocket is normally at atmospheric pressure, yet should a can leak, this pressure increases. As the test ends, each pocket is opened to a diaphragm like that of a telephone. The pocket with a leaky can actuates the diaphragm with its greater pressure, and the imperfect can thus detected is ejected automatically.

This automatic tester is one of the most ingenious of the modern machines used by National Can Corporation to safeguard quality from the first to the final steps in can-making.

NATIONAL CAN

CORPORATION

Oils, Fats and Waxes

Announcement of export allocations for close to a half billion pounds for oils and fats during the final quarter of the year by the Department of Agriculture last week, coupled with the sharp advances in lard, hogs and grains resulted in drastic boosts in prices for vegetable oils. Demand was active, especially for spot and prompt delivery, and business was transacted at steadily mounting prices. This was also reflected in nearby and future positions. Prices were increased almost daily, which made the market a nominal affair. Cottonseed and soybean oils registered the widest gains. O'd crop oil was in active request and supplies soon were cleaned up. Corn oil was scarce and higher. Coconut oil and copra were advanced under government purchases for export to European countries. Tallow and grease bids were increased 2 cents above prices a week ago, by large consumers and exporters and were turned down by producers who withdraw from the market. Animal oils reflected the strength in pressing stock and were advanced. Higher prices for lard lifted oleo oil and stearine. Tung oil continued unsettled and business was transacted at fractional declines.

Allocations of oils and fats totaling 452,500,000 pounds for export during the fourth quarter of 1947 were announced by the Department of Agriculture last week. This amount includes 36,300,000 pounds allocated in exchange for other oils and fats needed in the United States. Export allocations totaled 176,800,000, pounds for the final quarter in 1946. Allocations for the 1947 fourth quarter, include (in fat content) 74,600,000 pounds of lard, 5,200,000 pounds of margarine, 100,200,000 pounds of shortening and other edible oils 15,500,000 pounds of drying oils, 33,100,000 pounds of other inedible fats and oils, 17,100,000 pounds of soap, and 86,000,000 pounds of peanut oil as peanuts (100,000 short tons of shelled peanuts).

In addition to the 331,700,000 pounds of commercial export allocations, 120,800,000 pounds of fats and oils are allocated for procurement by the Production and Marketing Administration for the United States—United Kingdom occupied zones in Germany and for countries receiving aid under the United States Foreign relief program. A more detailed breakdown of the various fats and oils allocated and the recipients will be announced shortly by the Agriculture department.

Market Trends

Prices Advanced

Coconut oil, 2c. per lb.
Copra, $5 per ton.
Corn oil, 3c. per lb.
Cottonseed oil, crude, 4c. per lb.
ref., 4c. per lb.
Grease, 2c. per lb.
oil, 2c. per lb.
Lard, 3c. per lb.
Menhaden oil, ref., 2c. per lb.
Neatsfoot oil, 2c. per lb.
Oleo oil, 3c. per lb.
Sardine oil, ref., 2c. per lb.
stearine, 2c. per lb.
Soybean oil, 4c. per lb.
alkali, ref., 3c. per lb.
clarified, 3c. per lb.
Peanut oil, 3c. per lb.
Tallow, 2c. per lb.
oil, 1c. per lb.

Prices Reduced

Castor oil, No. 3, ¼c. per lb.
Tung oil, ¾c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
187.8	170.4	169.2	204.6

(For Current Prices see Page 9)

Cottonseed Oil

Active trading continued in bleachable oil futures last week and the volume of sales was the heaviest since the lifting of OPA ceilings. Most trading was centered in May and July, reported to be for general outside speculative buying. Prices were steadily advanced and scored sharp net gains. Market reflected the strength in lard, competing oils, grains and heavy demand for government account. Crude oil was in active demand for prompt delivery and available supplies soon dried up. Crude oil was advanced steadily with sales of September reported at 20½c. and 21c. per pound, tankcars, mills, with asking prices raised to 22c. Trading was reported at 20c., tankcars, in the Valley, October-November shipment. Market was entirely nominal.

Memphis.—Crude cottonseed oil was nominal at 20c. per pound, tankcars, September-November, Valley and soybean oil 18c. same basis. Cottonseed meal, 41 percent quoted at $91 per ton, Memphis, September and $88 for October. Hulls, quoted at $12 bulk and $18.50 sacked mills, September-November. Cottonseed moving rather freely and nominal at $80 ginning points.

Prices of refined bleachable prime summer yellow cottonseer oil in tankcars on the N. Y. Produce Exchange for the week ended September 12, follow:—

	Sales	Cents per pound—High	Low	Close
September	21	25	21⅝	23½@24½
October	1	20.35	20.35	22½@23½
December	44	23.70	19.80	21.15@21.40
January	6	23.45	20¼	21.15@21.40
March	150	24	20	21¼@21.60
May	176	24	20	21¼@21.60
July	7	23	21	21¼@21¾

Total sales—425 tankcars.

Crude cottonseed oil was reported sold at 22c., tankcars, Valley, nearby, and at 21c., Texas, October shipment.

Linseed Oil

Market was irregular and entirely nominal last week, and followed the trend of flaxseed. Early in the period seed declined to $6.30 per bushel and the price of raw oil was reduced 1c. per pound, to 28.40c. per pound, tankcars, for September-December delivery. Later in the week when seed advanced to $6.50, suppliers withdrew from the market and raised the nominal price to 29.40c. per pound, tankcars for November-January delivery and were not quoting for prompt delivery. Consuming inquiry also was light, and both consumers and crushers were at the sidelines waiting further developments in the seed situation.

Argentina plans to enter the paint export market, according to Argentine Government sources. It is proposed to establish factories to produce for foreign as well as home consumption. Domestic linseed oil will oe utilized.

Flaxseed production was estimated at 39,521,000 bushels as of September 1 by the Department of Agriculture, compared with 39,480,000 bushels the previous month and 22,962,000 bushels produced in 1946. The 10-year average is 25,030,000 bushels.

Minneapolis.—Linseed oil prices were advanced to 29.5c. early in the week as crushers virtually withdrew all offerings for a short period and waited for the seed situation to stabilize. Oil buyers generally are showing great resistance to the high oil prices and volume of business was rather light during the erratic price period. Crushers, at least some of them, were not offering oil in heavy volume for forward shipment and the main bulk of the current business is for October-December shipment at 29c. a pound in Zone 1. Mills were operating at 100 percent of capacity and planned to continue at this rate now that the threat of a seed shortage has been removed Shipping instructions were in good volume and many mills are trying to catch up with their slow start.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	6,480,000	6,540,000
Since Sept. 1	11,220,000	11,940,000

Flaxseed—Market irregular but firm with other grains. Demand active, with offerings restricted.

Minneapolis.—An advance of 50c. over the government support price of $6.00 per bushel brought an estimated 6,000,000 bushels of flaxseed into the market last week and after crushers satisfied their more immediate needs they withdrew and allowed the price to drop back 30c. a bushel. Selling resistance built up almost immediately and prices rallied back to $6.50, Minneapolis and $6.40 at Duluth as crushers indicated that they needed further supplies in local as well as other positions. The sharp advance in wheat, rye, oat and corn futures—all making all-time or 30-year high records, caused seed sellers to tighten their hold on supplies on the farm as well as at country points and it is expected that offerings will be very limited as long as other commodities cling to current high levels.

Bushels—	Receipts— 1947-48	1946-47	Shipments— 1947-48	1946-47
This week	2,001,000	1,026,800	415,200	249,600
Since Sept. 1	4,289,100	1,949,900	673,099	434,100

Other Vegetable Oils

Castor, Dehydrated—High cost of castor beans continued to dominate the price structure of all grades of castor oil. Prices for dehydrated were unchanged, while No. 3 was reduced ¼c. for tankcars to 26½c., and drums, carlots, to 27½c., while smaller quantities were cut ½c. to 28¼c.

Coconut—Market was stronger and reflected the higher prices for competing oils. Demand was active with purchases reported of 4,000,000 pounds in drums for government account for September-October shipment. Crude oil sold at 14c. per pound tankcars, Pacific coast, prompt shipment and December-January at 12½c., early in the week. Later prompt shipment and nearby was bid at 15c. Copra was advanced $5 per ton, with trading reported at $166 per short ton, Atlantic ports, and later sales were made at $165, c.i.f. Pacific coast and bids at this figure were refused. Sales of 9,000 tons were reported by the government early in the

For Late Market Developments, See Page 4

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week at prices ranging from $152.50 to $157.50 per ton, f.o.b. Philippines for shipment to European countries.

Department of Agriculture announced that the United States has received a supplemental allocation from the International Emergency Food Council of 40,625 metric tons of copra from the Philippines. Total allocation of copra from the Philippines for 1947 is now 375,000 metric tons (240,000 metric tons, oil content). In addition, arrangements have been made with foreign countries whereby the United States will receive 31,250 metric tons of copra (20,000 metric tons, oil content) from their allocations from the Philippines in exchange for copra or coconut oil shipped to those countries from the United States. (These exchanges have already been announced in weekly lists of supplemental allocations.)

Corn—Crude oil was in good demand and was stronger, with trading reported at 19½c., tankcars, mills, and prices were further boosted to 21c. Offerings were scarce and the market was entirely nominal. Refined oil was quoted nominally at 24c. to 24½c., tankcars, mills.

Oiticica—Interest was limited to occasional tankcar and small drum lots. Sales were reported at 25c. in tankcars. Supplies were light on spot and offers for shipment continued scanty owing to small crop for this season, the bulk of which has been sold for European account. Arrivals totaled 143 drums and 240 tons at New York last week for delivery on prior orders.

Olive—Buying interest continued centered to small lots on the spot. Supplies here have been steadily reduced and were held at $6.25 to $6.35 per gallon, drums duty paid. California oil was quoted at $5.25 to $5.50 per gallon, drums, as to seller.

Peanut—While trading was slow owing to the scarcity of supplies, the market was firmer with competing oils. Crude oil was sold at 20½c. per pound, tankcars, f.o.b. mills, with sellers ideas about 21½c.

Soybean—Sharp price advances featured the market last week, as a result of government export allocations and the higher cost of beans. Active demand and scarcity of old crop oil boosted the market about 4c. per pound, with trading reported in crude oil at 19c. and 20c. per pound, tankcars, f.o.b. mills, for spot shipment. October was sold at 17½c. and 18c. Prices were merely nominal and changed daily following the course of soybeans and competing oils. Refined alkali and clarified were boosted 3c. per pound.

Prices of refined bleachable soybean oil in tankcars on the N. Y. Produce Exchange for the week ended September 12, follow:—

	Sales	Cents per pound High	Low	Close
September	..	..	..	21N
October	..	..	..	20N
December	..	..	..	20N
January	..	..	..	20N
March	..	..	..	20N
May	..	..	..	20N
July	..	..	..	20N

Total sales—None.

Tung—This market was easier and a good volume of trading was reported at lower prices. Sales were noted from 23¾c. to 24c. per pound tankcars, New York basis, for prompt and nearby delivery. Late in the week the Chinese market was firmer and shipments were scarcer and higher. Drums were quoted at 25c. per pound, carlots and less carlots 25½c. to 25¾c. as to quantity.

Fats and Greases

Grease—Market tone was firmer and reflected the strength of tallow. Prices were boosted 2c. per pound and were well maintained. Market was entirely nominal in view of the scarcity of offerings. Choice was nominal at 14c. per pound, loose, works, yellow, 13½c., house 13½c., and white at 14¼c. to 14¾c., same basis.

Lard—Trend of prices was sharply higher last week. Active trading for speculative account boosted futures drastically, registering new highs for the season.

Tallow—Active inquiry from large consumers and exporters featured the market last week. Bids were increased 2c. per pound, but producers were not offering and withdrew from the market. Fancy was advanced to 15c. per pound, loose, extra, 14¾c. and special, 14½c., same basis. Light trading was reported in fancy at 15c.

Animal Oils

Degras—Consumers absorbed moderate lots for immediate delivery. Market was unchanged and steady.

Grease Oil—This market was firmer, with the higher cost of pressing stock. Prices were raised 2c. per pound. Trading was spotty, with offerings limited.

Neatsfoot Oil—Further price increases for pressing stock gave this market a firmer tone. Quotations continued merely nominal and were increased about 2c. per pound. Trading was quiet.

Oleo Oil—Prices were boosted about 3c. per pound. Market was strong, with offerings light. Consuming inquiry was fairly active. Extra was quoted nominally at 24c. per pound, drums, returnable, Chicago.

Stearine Oleo—Advances in lard were reflected in this material and nominal quotations were increased about 2c. per pound, to 18c. per pound, tierces, carlots. Offerings were scarce.

Fish Oils

Menhaden—Although trading was light, the market was steadier and selling pressure was reduced. Prices of refined oil were ad-

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vanced 2c. per pound, light pressed quoted 18c., tankcars; alkali refined, 19½c., and kettle bodied, 21c., same basis. Drums were 1c. higher.

Sardine—This market was steadier, with competing oils. Trading was limited to prompt needs and quotations were firmer. Refined grades were boosted 2c. per pound.

Los Angeles—Canners are doing very little trading now, because they expect the price of sardine oil to go up soon. At the present time oil was quoted at 13½c. per pound. Fishing this year has been poor. Little trading was noted in futures.

Fatty Acids

Red Oil—Market was firm and reflected the firmness in tallow and grease. Prices were closely held with producers watching developments in tight supply situation in the latter markets. Demand was moderate and mainly for prompt delivery.

Stearic Acid—While prices were unchanged, the market was stronger and reflected the firm position in tallow. Consuming inquiry was improved.

Cake and Meal

Cottonseed Meal—Although the September 1 cotton estimate of 11,849,000 bales was only 5,000 bales greater than August 1 estimate, considerable improvement was made in Alabama, Georgia, and the Carolinas, these States showing a total increase of 200,000 bales during the past thirty days. Demand for cottonseed meal has picked up sharply with a good many mills having booked solid for September and first half October production. Round lots of sacked 41 percent sold in Georgia last week at $85 for September shipment and at $86 in South Carolina. Mills are not showing any interest in selling deferred at discounts and, as a matter of fact, most of them have withdrawn until the price can be determined for seed based on upturns in oils and meals.

Linseed Meal—With demand brisk and offerings limited, the market was firmer and prices advanced.

Minneapolis.—Demand for meal was brisk, crushers offering but limited amounts for nearby shipment as prices continued to range toward old high levels. Meal, per ton, in bulk, quoted at $83@85 in carlots and there was not too much available at the lower end of the price range. Instructions on maturing meal contracts were in excellent volume and consumers continued to urge immediate shipment of supplies.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	10,560,000	6,846,000
Since Sept. 1	18,280,000	14,120,000

Peanut Meal—Several round lots of sacked 45 percent traded in South Georgia last week at $85 for October and November shipment. However, mills are refusing to quote any new crop meal.

Waxes

Beeswax—Lack of buying interest has weakened the market and quotations were easier. Crude African was quoted nominally at 50c. to 52c. per pound and Western Hemisphere at 52c. to 54c. on the spot, as to quantity. Refined also was lowered. Yellow refined was quoted at 55c. to 56c. and bricks at 56c. to 58c., as to seller.

Candelilla—Small lot trading was noted for spot delivery. Prices were unchanged for crude and refined grades.

Carnauba—With supplies on the spot practically cleaned up, prices were entirely nominal for all grades. Trading was inactive and reports from Brazil stated that prices were firmer with trading at advanced levels. Arrivals of 2,880 bags at New York last week were sold ahead and delivered against former orders.

Japan—Trading was quiet. Supplies on the spot ranged from 35c. to 40c. per pound, as to brand and quantity.

Montan—This market was quiet, with prices more or less nominal.

Ouricury—Offerings were more liberal and with demand slow, the spot market was easier. Crude was quoted at 56c. to 58c. per pound and refined, 63c. to 65c., as to quantity.

Day Leaves Spencer Kellogg Baltimore Sales Office

Spencer Kellogg & Sons, Inc., Buffalo, N. Y., has announced the retirement of Alfred S. Day, who has been in charge of its Baltimore sales office since 1909. His position will be filled by Glen A. Spaulding, formerly assistant district sales manager.

Mr. Spaulding spent two years during the war with the fats and oils branch of the War Food Administration, and returned to Spencer Kellogg after his work in Washington was finished. He was made manager of the trade sales department in Buffalo, and shortly afterwards was transferred to Baltimore as assistant to Mr. Day.

N.I. Malmstrom & Co. Moves Chicago Office

N. I. Malmstrom & Co., Brooklyn, N. Y., has announced the moving of its Chicago offices to new quarters at 444 West Grand avenue, Chicago 10. The telephone number at the new location is Superior 0461, and Stephen T. Goode is in charge of the office.

At the same time, the company said that the production of its Brooklyn plant has been materially increased in order to meet the increasing demand for lanolin, wool grease and absorption bases.

Copra production and export in the South Moluccas was severely retarded in June, according to Aneta News Agency. Shortage of shipping space, smuggling of copra to Singapore and the opening to the natives of more lucrative jobs in other fields are said to be the causes of the setback.

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Petroleum Derivatives

Demand for petroleum products during the first half of this year hit a new high record, and were reported to be 10.12 percent above the corresponding period last year. Under this new high output, the industry was struggling against a lack of sufficient transportation facilities that formed a bottleneck for all petroleum products.

In the Midwest area another large producer of petroleum distillates followed along with the price rise of two weeks previously set by a large producer. Fuel oil prices advanced one-half cent per gallon on diesel and home heating fuels. A similar price rise, as reported the previous week, was made in Western Pennsylvania, along with the crude oil price rises of 20 cent per barrel.

Aliphatic solvents and diluents were all in short supply with delayed shipments hampered by transportation problems. Rubber solvent and V. M. & P. Naphtha were among the most critical aliphatic solvents because these rather long fractions were not being cut in sufficient quantities due to the pressure on refinery schedules in other directions.

Prices on the Eastern Seaboard held essentially firm on distillates at all points under the current structure in which different company quotations vary by one-half cent per gallon at the same point. The only variation from this was some slight competitive variations in price schedules at Wilmington and Charleston.

Aromatic solvents such as toluol and xylol were in ample supply to meet demand, but not sufficient to cause inventories to be built up to any extent. Partial aromatic solvents consisting of aromatic/aliphatic mixtures were in good supply.

Butane and propane were in tight supply with very little material available. The shortage was due in part to lack of pressure vessels for transportation and storage, but was also due to a lack of supplies. Prices on these materials were unstable under the pressure of demand and varied from 3½ cents to 5 cents per gallon in the Group 3 area. Hexane was in strong demand from the vegetable oil extraction industry at firm prices. Most heptane production was being used as a constituent of certain lacquer diluents.

The petrolatum market sagged under lack of foreign purchasing power, while the technical white oils were in strong demand and short supply.

Solvents and Diluents

Aromatic Solvents—Petroleum aromatic solvents and partial aromatic solvents moved in large volume last week. Toluol and xylol were being produced in sufficient quantities to meet demand from the synthetic resin and industrial finish industries in the East. In the Midwest, however, transportation facilities were lacking to insure prompt deliveries. Higher boiling fast evaporating aromatic/aliphatic blends were in somewhat less demand. Prices remained in their present range established some weeks ago, and no further price rises were immediately anticipated.

Cleaner's Naphtha—This aliphatic solvent for the dry cleaning industry was under good demand, and most orders were being filled fairly well. Prices held within the ½c. spread quoted by different suppliers at the same point.

Lacquer Diluent—Supplies of lacquer diluent moved in fair volume last week, but the supply situation was reported as being tight. The benzol and toluol type lacquer diluents held firm in price at slightly different quotations from different suppliers. Lacquer diluent being one of the fast evaporating type solvents in which considerable quantities of heptane are used, supplies were somewhat tied to the heptane supply. Transportation problems caused some delay in shipment.

Mineral Spirits—This heaviest volume paint solvent continued in strong demand. Normally this solvent is free and readily available in any quantity. However, the current market is hampered somewhat in deliveries by lack of sufficient transportation facilities. Prices were stable under the present structure of a ½c. differential between the quotations of different suppliers at the same point.

Rubber Solvent—There was a reported scarcity in supplies of rubber solvent last week which stemmed not only from the transportation problem but also from the lack of sufficient material being fractionated. Prices continued in the range of 12½c. to 13c. per gallon in the East.

Stoddard Solvent—Supplies of Stoddard solvent were very much in the same position as mineral spirits, being somewhat slow in delivery. Prices held firm at the new levels established three weeks ago.

V.M. & P. Naphtha—Short supplies of V.M. & P. naphtha arising from insufficient fractionation of this cut as a result of heavy refinery schedules in other directions characterized the market last week. Shipments were frequently running behind schedule, and some suppliers were hard pressed to fill orders at all. Prices held firm at their current levels.

Lighter Fractions

Butane—Industrial butane was very tight due to the heavy demand for its use in alkylation processes during the summer months and its use in gasoline for the approaching winter months as an aid to volatility. Current prices in the group 3 area were listed at approximately 3½ cents per gallon. Transportation troubles arising from lack of sufficient tanks contributed to the tight supply situation currently prevailing.

Heptane—Supplies of heptane were more freely available than most of the other light fractions because of lesser demand. Considerable quantities were going into highly volatile fast evaporating lacquer diluents. Prices held firm at their current levels.

Hexane—Heavy demand for hexane continued from the vegetable oil extraction industry, and supplies were retarded in shipment due to shortage of transportation facilities. Drum carlot prices ranged from 14½ to 17 cents per gallon, with tank prices at 11¾ cents at Tulsa.

Pentane—Tank quantities of pentane were quoted at 7¾ cents per gallon last week at Tulsa. Supplies were tight due mainly to lack of transportation facilities. Currently demand was off somewhat.

Propane—The price structure on propane was uncertain last week in the face of a severe shortage due in part to lack of pressure vessels for storage and shipping, and due also to insufficient supplies available. Prices were quoted from 3½ to 5 cents per gallon in the group 3 area, but most suppliers had no material to offer.

White Oils and Petrolatums

The white oil market was considerably stronger than petrolatums last week. Technical white oils were reported to be short, while the U.S.P. white oils were in general about equivalent to demand. Refiners, however, had essentially no inventory on hand. Prices were firm at their current levels.

The quiet petrolatum market was attributed to the lack of dollars in foreign countries with which to make purchases. Further price reductions beyond those made some weeks ago were being contemplated in some quarters but to date had not yet been made. Other producers were inclined to sit tight holding to present prices.

Effective last July 6, the Belgian government prohibited the sale of any article of food which contained paraffins or mineral oils, and any foodstuffs which have come in contact with paraffins or mineral oils were prohibited from sale as of June 16. Copies of the translated decree may be obtained from the European Division, Office of International Trade, U. S. Department of Commerce, Washington, D. C.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended August 30 totaled 228,281,000 barrels, according to the Bureau of Mines. Compared with the total of 227,642,000 barrels for the preceding week, this represented an increase of 639,000 barrels, comprising an increase of 677,000 barrels in stocks of domestic crude and an decrease of 38,000 barrels in stocks of foreign crude. Heavy crude oil stocks in California, not included in the gasoline-bearing stocks, totaled $5,352,000 barrels, an increase of 19,000 barrels from the previous week.

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The new kettles are stainless steel throughout from 30 to 200 gallons. The used kettles have steel jackets from 20 to 100 gallons with covers.

3—Mikro Bantam Pulverizers, with motors.
1—Abbe Bluttergess Sifter, motor drive.
3—Day and Campbell 8 and 20 gal. Pony Mixers.
1—500 gal. steel jacketed and agitated Sulphonator.
1—Kux Lohner Tablet Press up to 2½".
2—Stainless steel Condensers — 210 sq. ft.
2—New Swenson single effect Evaporators, Karbate tubing.
1—Tolhurst 26" stainless steel centrifuge, perforated Basket.

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1—Dopp 125 gal. Steam Jacketed Kettle with agitator.
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1—18-Spout Karl Kiefer Rotary Filler.
6—Stokes Rotary Tablet Machines, Model RD-4.
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6—New Clevon Can Filling Machines.

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7—Steel Tanks 28' dia. x 19'6" high, 100,935 gals. each.

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1—Howe 3,000-lb. Horiz. Powder Mixer & Sifter, M.D.
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6—Stokes "F" Single Punch to ¾" dia.
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6—Stokes Rotary "D4" to 1" dia.
1—Stokes "DD-2" Rotary—31 Hole Head.
1—Colton No. 3 Rotary Wet Granulator, M.D.

Send for Bulletin A-18 Listing Agitators, Centrifuges, Dryers, Elevators, Fillers, Grinders, Kettles and Tanks, Labelers, Retorts, Sterilizers, Case Sealers, Etc.

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For sale: used chassis, tank trucks and truck tanks, list sent upon request. M. S. Charlton, The Atlantic Refining Co., P. O. Box 7258, Philadelphia 1, Pa.

For sale: No. 5 Kilby pressure filter with 12 monel covered leaves on 4 in. centers; 1,000-gal. steel jacketed kettle, closed, bottom outlet, 3 h.p. totally enclosed motor; two (2) 5,000-gal. "Underwriters' Label" storage tanks, flat heads; 30 in. Shriver c.i. plate and frame filter press, open delivery, washing 2 in. cake. OPD 953.

For sale: One "used" Hummer electro magnetic vibrating screen made by Tyler, serial V954, type V16, with a one-horse power motor and generator complete, one extra coil. C. V. Murray Co., Inc., 150 Broadway, New York City.

Chemical laboratory: Shelves, benches, fully automatic 5 HP boiler, 2 jacketed Pfaudlers (side agitated) connected with ice machine. Total price: $2,500. Also 2 agitated Cypress tanks, 10x8, $300 each; 20,000 lbs. iron oxide; 2,000 lbs. copper carbonate. 411 South Street, Newark, N. J.

For sale: Buffalo double drum dryer including screw conveyors, vapor hood, reduction gears, variable speed drive; located in Phila. OPD960.

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1—KETTLE, 300 gal., aluminum jacketed.
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1—MIXER, Day, single sigma blade, tilting type, 20" x 16" x 16".
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Require 300-gallon kettle, 30-pound internal pressure, one bottom drain, 3, 4-inch openings and 1, 6-inch opening minimum requirements. To be glass-lined and jacketed for 125-pound steam or to be nickel-lined jacketed for 125-pound steam or to be nickel-lined with nickel steam coil for 125-pound steam, 40 square feet heating area. Write or wire Purchasing Department, Columbia Chemical Division, Pittsburgh Plate Glass Company, Barberton, Ohio.

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Red Iron oxides, natural and synthetic; available for prompt delivery; continuous supply; samples and quotations upon request. OPD 939.

Sodium sulfate (natural, anhydrous) car lots. New property opening. Shipments to be made soon. Frank M. Darrow, Box 303, Trona, California.

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Chemical concern ready to take orders for methyl iodide and desoxy-ephedrine. Full particulars sent on request. OPD 956.

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Lithopone, Titanated lithopone, Titanium dioxide. Reasonable premiums. Give full particulars. OPD 937.

Wanted: Crude coal tar and water gas tar in quantities. We have facilities for immediate removal. R.R. tank cars, tank trucks, storage tanks. P. S. Kramer, Tar Refiner, 7 Smith Street, Paterson 1, N. J.

To manufacturers and jobbers: Are you overstocked? We require immediately large or small lots, many items, chemicals, pharmaceuticals, solvents, aromatics, waxes; other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 936.

Titanium dioxide monthly quantities, dyestuffs intermediates, beta naphthol, paranitraniline, gamma-acid, I-acid, etc., for export; give price, packaging, prompt or future delivery. OPD 963.

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PHOSPHATE LEASE

United States Department of the Interior, Bureau of Land Management, Washington 25, D. C. Notice is hereby given that sealed bids will be received until 1 p.m., Eastern Standard time, October 23, 1947, for the following described lands situated in Silver Bow and Beaverhead Counties, Montana: lots 7, 8, SE¼NW¼, E½SW¼, W½SE¼ sec. 30, lots 1, 2, 3, 5, 6, NE¼, E½NW¼, NE¼SW¼, NW¼SE¼ sec. 31, SW¼NW¼ sec. 32, SW¼NW½, R. W., SW¼SW¼ sec. 5, lots 2, 3, SW¼NE¼, SE¼NW¼, SE¼ sec. 6, (excluding 20.66 acres embraced in patented mineral survey No. 10063), lots 3, 4, NE¼NE¼, SE¼SW¼,S½SE¼ sec. 7, NW¼, N½SW¼, SW¼SW¼ sec. 8, NW¼NW¼, sec. 17, N½N½ sec. 18, T. 2 S., R. 9 W., and the SE¼ sec. 12, T. 2 S., R. 10 W., P.M., 2049.81 acres. This land is offered at a minimum bid of $1 an acre to qualified bidders of the highest cash amounts per acre as a bonus for the privilege of leasing under the phosphate provisions of the act of February 25, 1920 (41 Stat. 451, 30 U.S.C. 211 et seq.), subject to the following conditions: (1) A royalty of 5 percent of the gross value on all run-of-mine, crushed, pulverized, or beneficiated phosphate rock, sold or used by the lessee, for the manufacture of phosphate, and on all associated mineral products produced from the leased land, f.o.b. the point of shipment. Such royalty shall not be less than 15 cents a ton of 2,000 pounds, mine run, for phosphate rock analyzing on a B.P.L. basis 55 percent or less, plus 1 cent a ton for each percent contained B.P.L. above 55 percent, averaged for the royalty period. It is expressly agreed that the Secretary of the Interior may establish reasonable minimum values for the purpose of computing royalty on any phosphate rock and associated mineral products, due consideration being given to the highest price paid for a part or a majority of the production of like quality products for the same general area, the price received by the lessee, posted prices, and other relevant matters. The United States reserves the right to take its royalty in kind. (2) A minimum investment of $100,000 during the first three years of the lease; and (3) A minimum production of 10 tons an acre, beginning with the fourth year of the lease, and otherwise substantially in accordance with the lease form set out in the regulations (43 CFR 196.14) as amended. The bids must be submitted to the Director, Bureau of Land Management, Washington 25, D. C., and each bidder must submit with the bid one-fifth of the amount bid in cash or by certified check on a solvent bank, or by money order, made payable to the order of the Treasurer of the United States, and file the showing of qualifications to receive a lease, required under 43 CFR 196.6(a), (b) and (c), as amended. The envelope shall be plainly marked, "Bid for phosphate lease. Not to be opened before 1 p.m., Eastern Standard Time, October 23, 1947." No bids received after the hour fixed herein for receiving bids will be considered. The remainder of the bonus and the annual rental at the rate of 25 cents per acre must be paid and a corporate surety bond in the sum of $5,000 must be furnished by the successful bidder prior to the issuance of a lease (43 CFR 196.12). The deposits of the unsuccessful bidders will be returned upon acceptance of the successful bid. Bidders are warned against violation of section 59, U. S. Criminal Code, approved March 4, 1909, prohibiting unlawful combination or intimidation of bidders. The right is reserved to reject any and all bids. Fred W. Johnson, Director.

POSITIONS VACANT

Western pharmaceutical manufacturer has opening for tablet coater. Excellent opportunity with growing firm. Reply OPD 955, stating age, experience and qualifications.

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Sales position open: Large chemical manufacturer has need for salesman to headquarters in a Southern City. Prefer one having experience in selling agricultural and industrial chemicals. Please give full particulars including references. Good future for man having executive and sales ability. Advise starting salary expected. OPD 938.

Salesman wanted: Chemical education. Experience in plastics, varnishes, and plasticizers desired. Reply in detail, stating experience, salary desired, and previous positions held. Confidence respected. Splendid advancement opportunity for worker desiring permanent employment. Reply to OPD 941.

Wanted—Technical salesman experienced in sales and service of stearates to industry in the mid-west. Excellent opportunity with large chemical manufacturer. Give full details. OPD 961.

POSITIONS WANTED

Production Manager: 21 years in production of oleoresins and synthetic finishes, raw materials to finished product. Seeks connection with established, progressive company. Forty-two years old, excellent references. OPD 944.

Production chemist—B.S., 12 years' diversified experience production fine chemicals. Handle equipment, control, men, records, etc. Can take complete charge operation small plant or unit. Available on reasonable notice. OPD 934.

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Industrial chemist, 40; M. Sc. in chemistry, food technologist, wide production experience in food preparations, pharmaceuticals and industrial supplies, seeks employment in managerial capacity, research, development, production or consultation. Metropolitan area preferred. OPD 943.

Shoe blacking products—Young technician with many years experience in manufacture and developing of shoe blacking and shoe finish products, now employed but available on reasonable notice, wants position with progressive factory. OPD 954.

Englishman, ex-R.A.F. officer, energetic, 20 years as successful paint salesman, speaks French, Hindustani and some Spanish, loves selling, seeks situation in the U. S. A. Highest references and fidelity bond. Present remuneration 12-0-0 pounds sterling, weekly, plus expenses. Will pay own passage and work on commission basis if desired. Reply to A. S. Whiffin, Tudor House, Congresbury, Bristol, England.

Consulting chemist, experienced in development and manufacture of floor waxes and polishes, shoe and leather finishes, resinous surface coatings and adhesives, and emulsion specialty items, is available for consulting service. OPD 957.

Purchasing Agent, 38; 8 years experience including recent pharmaceutical and vitamin. Good knowledge of chemicals, drugs, essential oils, packaging materials. Work in close coordination with production, inventory control, and sales planning. Metropolitan area preferred. OPD 958.

Research, development chemist — Experienced plastics, chemicals, rubber, fuels, lubricants, health; products, process, equipment; practical, American. Scientist, M.S.; 20 years in industry. Wants connection research, equipment manufacture, consulting; good writer. OPD 926.

Advertising Index now on Page 83

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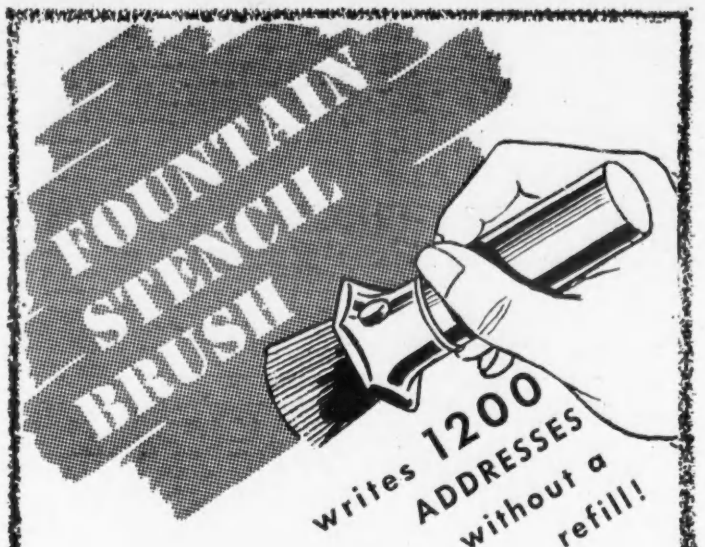

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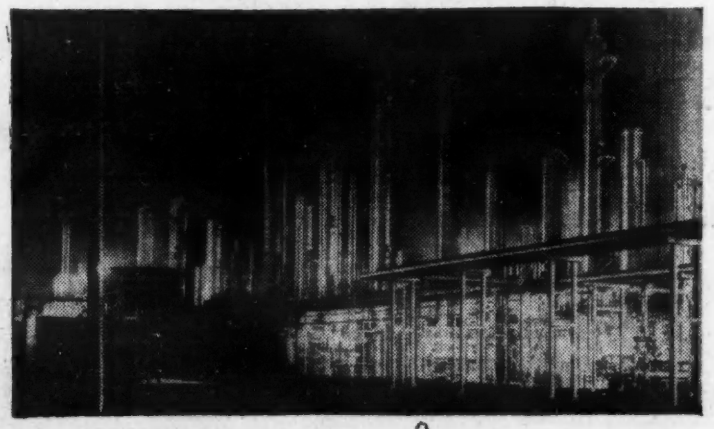

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